DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2580

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This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip

Copies to USBM, USGS, and Region VII.

To:	Code 600, Rm. 4637	Date	6-12-52
To:	Feitler	Date	6/13/52
To:	Op Com.	Date	7-18-52
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CONTROLLED DOCUMENT

600

AUG 29 1952

Mr. J. W. Swayngim
East Laporte
North Carolina

Subject: Docket No. DMEA-2580 - Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Dear Mr. Swayngim:

Reference is made to the subject application for exploration assistance on your property in Jackson County, North Carolina.

A careful analysis of the information available to the staff of the Defense Minerals Exploration Administration indicates that the mica occurring at the Wilson and Lovedahl Mine is not of acceptable quality for purchase by the Government through the General Services Administration buying depot at Spruce Pine, North Carolina, and is therefore, not considered to be of strategic quality.

In view of the foregoing, your application is denied.

Thank you for your interest in the defense effort.

Sincerely yours,

C. O. Mittendorf

Acting Administrator

SAFeitler:mp 8/28/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Norton, G-232, GSA Bldg.
Mr. Dietrich, 3526
Mr. Houk
Field Team, Region VII

August 28, 1952

Memorandum

To: Mr. C. O. Mittendorf, Acting Administrator

From: Stanely A. Feitler, Non-Metallic Minerals Division

Subject: Docket No. DMEA-2580 - Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Recommendation: Denial

Application dated 6/6/52 by J. W. Swayngim, East Laporte, N. C.
Proposed program: Sink shaft on dike below old workings at an estimated cost of $7,500.00.
USGS memo dated 6/18/52 recommends field referral.
USBM memo dated 7/15/52 recommends field referral.
Letter to R. A. Laurence dated 7/21/52 requesting field examination.
Field Report received 8/11/52 - "Mica not suitable for stockpiling".
USGS memo dated 8/18/52 - "Concur with Field Team".
USBM memo dated 8/25/52 - "Concur with Field Team".

SAFeitler:mp
cc: Docket File
Adm. Reading File
Mr. Houk

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

August 25, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2580, Mica, Sheep Mountain Mine,
Jackson County, North Carolina

I concur in the field team's recommendation to deny subject application on the basis of the poor quality of the mica.

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 26 1952

IN REPLY REFER TO:

G-MD-CNM

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

August 18, 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2580 (Mica)

To: L. W. Houk, Defense Minerals Exploration Administration
From: P. L. Weis, U. S. Geological Survey
Applicant: J. W. Swayngim
Name of property: Sheep Mountain Mine
Location of property: Jackson County, North Carolina
Date of field team report: July 31, 1952
Authorship of field team report: A. L. Peyton and K. H. Teague
Field team's recommendation: Denial
Comments: None
ACTION SUGGESTED:
Follow field team's recommendation.

P. L. Weis

copy to: Dir's r. file
Branch r. file
DMEA
Norton files G-230
Weis "

Weis:bkg
G-8/18/52

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 01, Tennessee

Subject: Docket No. DMEA-2580 - Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Dear Mr. Laurence:

This is to request a field examination at the above mine located on Moses Creek in Caney Fork Township, Jackson County, North Carolina. A copy of the application is in your file and a copy of a memorandum from the U. S. Geological Survey and one from the U. S. Bureau of Mines are enclosed.

The usual examination is needed with special attention being given to the lease boundaries as only two acres are included. If exploration is warranted, a suitable program and estimate of costs should be included.

Sincerely yours,

George C. Selfridge

ACTING Chairman, Operating Committee
Defense Minerals Exploration
Administration

Approved:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

Enclosures - 2

SAFeitler:mp 7/18/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

Mr. J. W. Swayngim
East Laporte
North Carolina

Subject: Docket No. DMEA-2580- Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Dear Mr. Swayngim:

Your application is being referred to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee, for further information.

Your lease provides that all mica be sold to the Government at Sylva, North Carolina. This paragraph seems to be unreasonably restrictive. The Government maintains no purchasing depot at Sylva and it will buy only certain qualities of mica. Furthermore, the present Government purchase program is to end June 30, 1955, or sooner, although your lease runs to April 15, 1957, and may be extended for five years. A suggested rewording of this provision follows:

> Said party of the second part will offer to sell all mica taken from the aforesaid mine to the Government, its agencies or assigns, at the prices established by it if of acceptable quality. All mica not of such quality may be disposed of through the usual channels. Party of the first part shall be furnished with an itemized statement of each sale of mica.

Enclosed are eight copies of Form MF-203, "Owner's Consent to Lien". As you are a lessee, you should have six copies signed by the lessor and send them to this office. Do not fill in the amount of the contract. All other blank spaces may be filled in or they will be completed here when and if a contract is written.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Administrator
Defense Minerals Exploration
Administration

Enclosures - 9

SAFeitler:mp 7/18/52

cc: Docket File
Adm. Reading File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

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

July 15, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2580, J. W. Swayngim, East Laporte
North Carolina

On the basis of the applicant's description of past operations and present exposures, a field team investigation is recommended. The Geological Survey (Professional Paper 225, p. 87) tested 528 pieces indicating 100 percent of E-1 capacitor quality. Applicant indicates past production valued at approximately $52,000 during World War I.

W. F. Dietrich

RECEIVED
JUL 23 1952
U. S. Geological Survey
Knoxville, Tenn.

IN REPLY REFER TO:
G-MD-PLW

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

June 18, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2580 (Mica).

To: L. G. Houk, Non-Metallic Minerals Division, DMEA.
From: P. L. Weis, U. S. Geological Survey.
Applicant: J. W. Swayngim.
Name of property: Wilson and Lovedahl (Sheep Mountain) Mine.
Location of property: Caney Fork Township, Jackson County, North Carolina.
Estimated cost of project: $7,500.
Summary of applicant's proposal:
(1) Preliminary bulldozing and retimbering tunnel opening.
(2) Shaft or drift along pegmatite.
Sources of information on applicant's property:
(1) Jahns, R. H., Mica deposits of the Blue Ridge Province of North Carolina and Georgia. In preparation, U. S. Geological Survey.
(2) Colonial Mica Corporation purchase records.
Comments:
(1) Jahns states in his report that the pegmatite has been explored over a horizontal distance of 170 feet and a vertical distance of 120 feet. He states the mica is a maximum of 6 inches and an average of 3 inches in diameter, hard, unwarped, but commonly reeved, and nearly all is spotted. Jahn's report is not clear as to whether or not additional exploration is warranted, but the general tone of the report is pessimistic. A copy of Jahn's report is being sent to the field team.
(2) Applicant states that commercial quantities of mica have been produced. Colonial Mica Corporation lists a total purchase of 39 lbs. during the war years.
(3) In view of the small production and poor quality of the mica from past operations, the amount of exploration proposed may be excessive.

RECOMMENDATION: Refer to field team.

RECEIVED
JUL 2 1952
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

PLWeis:hhp
G-6/18/52
cc: Dir's Read. f., 4212
Branch Read. f., 4212
DMEA
PLWeis, G-228, GSA Bldg., USGS
extra

Paul L. Weis

FILE COPY
SURNAME:

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

AUG 29 1952

Mr. J. W. Swayngim
East Laporte
North Carolina

Subject: Docket No. DMEA-2580 - Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Dear Mr. Swayngim:

Reference is made to the subject application for exploration assistance on your property in Jackson County, North Carolina.

A careful analysis of the information available to the staff of the Defense Minerals Exploration Administration indicates that the mica occurring at the Wilson and Lovedahl Mine is not of acceptable quality for purchase by the Government through the General Services Administration buying depot at Spruce Pine, North Carolina, and is therefore, not considered to be of strategic quality.

In view of the foregoing, your application is denied.

Thank you for your interest in the defense effort.

Sincerely yours,

C. O. Mittendorf

Acting Administrator

8-29-52

SAFeitler:mp 8/28/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Norton, G-232, GSA Bldg.
Mr. Dietrich, 3526
Mr. Houk
Field Team, Region VII

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

August 28, 1952

Memorandum

To: Mr. C. O. Mittendorf, Acting Administrator

From: Stanely A. Feitler, Non-Metallic Minerals Division SAF

Subject: Docket No. DMEA-2580 - Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Recommendation: Denial

Application dated 6/6/52 by J. W. Swayngim, East Laporte, N. C.
Proposed program: Sink shaft on dike below old workings at an estimated cost of $7,500.00.
USGS memo dated 6/18/52 recommends field referral.
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Field Report received 8/11/52 - "Mica not suitable for stockpiling".
USGS memo dated 8/18/52 - "Concur with Field Team".
USBM memo dated 8/25/52 - "Concur with Field Team".

FILE COPY
SURNAME:

SAFeitler
Houk
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WWalker

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

August 28, 1952

Memorandum

To: Mr. C. O. Mittendorf, Acting Administrator

From: Stanely A. Feitler, Non-Metallic Minerals Division

Subject: Docket No. DMEA-2580 - Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Recommendation: Denial

Application dated 6/6/52 by J. W. Swayngim, East Laporte, N. C.
Proposed program: Sink shaft on dike below old workings at an estimated cost of $7,500.00.
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SAFeitler:mp
cc: Docket File
Adm. Reading File
Mr. Houk

IN REPLY REFER TO:
G-MD-CNM

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

August 18, 1952

S.A F.

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2580 (Mica)

To: L. W. Houk, Defense Minerals Exploration Administration
From: P. L. Weis, U. S. Geological Survey
Applicant: J. W. Swayngim
Name of property: Sheep Mountain Mine
Location of property: Jackson County, North Carolina
Date of field team report: July 31, 1952
Authorship of field team report: A. L. Peyton and K. H. Teague
Field team's recommendation: Denial
Comments: None
ACTION SUGGESTED:
Follow field team's recommendation.

Paul L. Weis
P. L. Weis

DEPARTMENT OF THE INTERIOR
Bureau of Mines
AUG 19 1952

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

Sw Sutler

August 25, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2580, Mica, Sheep Mountain Mine,
Jackson County, North Carolina

I concur in the field team's recommendation to deny subject application on the basis of the poor quality of the mica.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 26 1952

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

Room 1, Post Office Building
Knoxville, Tennessee

August 11, 1952

Memorandum

To: Operating Committee, D M E A

From: Field Team, Region 7

Subject: DMEA-2580. Field Team Report of Examination

Attached are original and three copies of the above subject report. The Field Team concurs in the denial of this application.

Also enclosed is the supporting data on this application.

Wm. A. Beck, Acting Executive
Officer, DMEA Field Team
Region 7

Benjamin Gildersleeve
Member DMEA Field Team
U. S. Geological Survey

UNITED STATES
Department of the Interior

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2580, SHEEP MOUNTAIN MINE(mica)

J. W. Swayngim, Applicant
Laport, North Carolina

AUG 12 1952

By

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

Kefton H. Teague, Geologist
U. S. Geological Survey

July 31, 1952

Reviewed by
DMEA OPERATING COMMITTEE
8-15-52
(date)

Field Examination on

DMEA-2580, SHEEP MOUNTAIN MINE
(MICA)
J. W. Swayngim, Applicant
East Laport, Jackson County
North Carolina

This mine was worked extensively during 1915-18 and to a very limited extent during World War II. Almost all mica examined in the exposures and scrap in the dumps contains a central area of brown colored spots, the outline of which parallel the outline of the mica crystal. Samples of mica were collected and submitted to Walter S. Flynt, Superintendent, Spruce Pine Mica Depot, General Services Administration, Spruce Pine, N. C. Mr. Flynt informed the Field Team on August 1, 1952 that the samples submitted were unacceptable under the program for stockpiling. Because of the quality the loan should be denied.

The property was examined by the Field Team on July 31, 1952. J. W. Swayngim accompanied the Field Team and 2.5 hours were spent on the examination.

The Sheep Mountain Mine is 7 airline miles S. 25° E. of Sylva, Jackson County, North Carolina on the north side of Moses Creek, a tributary of Caney Fork. The mine is easily accessible by the Moses Creek road which branches to the north from the Caney Fork road, which in turn leaves N. C. State Highway 107 at East Laport.

The main group of workings, made during the 1915-18 operation consists of a large open cut 100 feet long, up to 45 feet wide, and up to 75 feet deep. The eastern edge of the cut overhangs the bottom for a maximum distance of 20 feet. At the bottom, at the eastern side of the face, an adit extends northeast for 65 feet, at which point a crosscut, inclined upward, continues to the east for 20 feet. A large irregular stope, 65 feet long, has been made in a northeasterly direction from the western edge of the cut. The maximum height of the stope is 25 feet.

The northern part of the main pegmatite body has also been explored by two small open cuts. Seventy-five feet south of the entry of the main open cut, an adit, now caved, was started toward the pegmatite. Although the dump from this adit is large, it contains no pegmatite debris, and it is believed that this adit did not encounter the intrusive.

The country rock is a fine-grained quartz-biotite gneiss, the foliation of which strikes northeast-southwest and is vertical to steeply dipping to the northwest. Near the pegmatite the gneiss has been injected in lit-par-lit fashion by stringers of quartz up to two inches in thickness. Bands of rock rich in coarse biotite alternate with fine-grained bands. Striking at nearly right angles to the strike of the foliation are small pegmatite dikes, up to 1.5 feet in thickness, consisting cheifly of coarse-grained quartz and plagioclase with some biotite.

The main pegmatite is unusual both in structure and mineralogy. The minerals are quartz, plagioclase, biotite, muscovite, and a sulfide tentatively identified as chalcopyrite. Much of the mass of the pegmatite is unusually mafic. It consists of an intergrowth of plagioclase with varying quantities of biotite. In general the latter is more abundant forming up to an estimated 65% of the rock. It occurs in warped, broken plates up to 8 by 6 inches in size but also in dense, felted aggregates of fine-grained flakes. Where the biotite is the more abundant, it lacks orientation. However, plagioclase-rich pegmaite has attenuated clusters of books of biotite that have a rude parallelism of the cleavage planes. Quartz is a very minor constituent of biotite-rich pegmatite, but muscovite is locally abundant. Sulfides appear as small, irregular blebs in the felted masses of biotite.

The pegmatite is a single, tabular dike at depth, but is bifurcate in its upper, near-surface parts. It trends northeast-southwest and in general, is vertical. The undivided part of the intrusive has a maximum thickness of 20 feet.

The upper arms are separated by a septum of gneiss of variable thickness. The axis of the bottom of this septum plunges at a low angle to the southwest.

Mica is in books up to six inches in diameter but which average about 3 inches. One concentration of mica occurs along the west wall of the undivided pegmatite and continues along the same wall of the western arm. It appears to have been the most important mica zone. The other zone is exposed in the crosscut, 10 feet from the eastern contact. Widely scattered books of muscovite are in the main mass of the pegmatite.

The mica is deep rum colored, very hard and flat. Euhedral crystals are common. Very little of it is warped, but reeves are common. Nearly all of it is light spotted with a central area of spots, the

outline of which parallels the outline of the mica crystal. Though much of the mica occurs in pegmatite rich in biotite, relatively little intergrowth of the two micas has taken place. Rare inclusions of plagioclase are present.

No recent production is reported from the Sheep Mountain mine. During 1915 to 1918 Mr. Lovekahl is reported to have removed mica valued at $50,000. It is further reported that only about one percent of this mica was free from spots.

In view of the absence of unspotted mica in the exposures and on the dumps, it is considered that the pegmatite offers little opportunity for the production of strategic mica, and its reopening, at this time, is not recommended, thus the loan should be denied.

NOTE: Most of the above report was taken from an unpublished description of the Sheep Mountain Mine prepared April 8, 1944 by E. Wm. Heinrich of the U. S. Geological Survey. There has been no change in the workings since Heinrich report was prepared.

July 31, 1952

A. L. Peyton
U. S. B. M.

K. H. Teague,
U.S.G.S.

xxxxxxxxxxxxxx

Room 1, Post Office Building
Knoxville, Tennessee

August 11, 1952

Memorandum

To: Operating Committee, D M E A

From: Field Team, Region 7

Subject: DMEA-2580. Field Team Report of Examination

Attached are original and three copies of the above subject report. The Field Team concurs in the denial of this application.

Also enclosed is the supporting data on this application.

Wm. A. Beck, Acting Executive
Officer, DMEA Field Team
Region 7

Benjamin Gildersleeve
Member DMEA Field Team
U. S. Geological Survey

mm
cc:
Beck
Lynch
Files

UNITED STATES
Department of the Interior

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

TMEA-2580, SHEEP MOUNTAIN MINE(mica)

J. N. Swayngim, Applicant
Laport, North Carolina

By

A. L. Peyton, Mining Engineer
U. S. Bureau of Mines

Kefton H. Teague, Geologist
U. S. Geological Survey

July 31, 1952

Field Examination on

IMEA-2580, SHEEP MOUNTAIN MINE
(MICA)
J. W. Swayngim, Applicant
East Laport, Jackson County
North Carolina

This mine was worked extensively during 1915-18 and to a very limited extent during World War II. Almost all mica examined in the exposures and scrap in the dumps contains a central area of brown colored spots, the outline of which parallel the outline of the mica crystal. Samples of mica were collected and submitted to Walter S. Flynt, Superintendent, Spruce Pine Mica Depot, General Services Administration, Spruce Pine, N. C. Mr. Flynt informed the Field Team on August 1, 1952 that the samples submitted were unacceptable under the program for stockpiling. Because of the quality the loan should be denied.

The property was examined by the Field Team on July 31, 1952. J. W. Swayngim accompanied the Field Team and 2.5 hours were spent on the examination.

The Sheep Mountain Mine is 7 airline miles S. 25° E. of Sylva, Jackson County, North Carolina on the north side of Moses Creek, a tributary of Caney Fork. The mine is easily accessible by the Moses Creek road which branches to the north from the Caney Fork road, which in turn leaves N. C. State Highway 107 at East Laport.

The main group of workings, made during the 1915-18 operation consists of a large open cut 100 feet long, up to 45 feet wide, and up to 75 feet deep. The eastern edge of the cut overhangs the bottom for a maximum distance of 20 feet. At the bottom, at the eastern side of the face, an adit extends northeast for 65 feet, at which point a crosscut, inclined upward, continues to the east for 20 feet. A large irregular stope, 65 feet long, has been made in a northeasterly direction from the western edge of the cut. The maximum height of the stope is 25 feet.

The northern part of the main pegmatite body has also been explored by two small open cuts. Seventy-five feet south of the entry of the main open cut, an adit, now caved, was started toward the pegmatite. Although the dump from this adit is large, it contains no pegmatite debris, and it is believed that this adit did not encounter the intrusive.

The country rock is a fine-grained quartz-biotite gneiss, the foliation of which strikes northeast-southwest and is vertical to steeply dipping to the northwest. Near the pegmatite the gneiss has been injected in lit-par-lit fashion by stringers of quartz up to two inches in thickness. Bands of rock rich in coarse biotite alternate with fine-grained bands. Striking at nearly right angles to the strike of the foliation are small pegmatite dikes, up to 1.5 feet in thickness, consisting cheifly of coarse-grained quartz and plagioclase with some biotite.

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The upper arms are separated by a septum of gneiss of variable thickness. The axis of the bottom of this septum plunges at a low angle to the southwest.

Mica is in books up to six inches in diameter but which average about 3 inches. One concentration of mica occurs along the west wall of the undivided pegmatite and continues along the same wall of the western arm. It appears to have been the most important mica zone. The other zone is exposed in the crosscut, 10 feet from the eastern contact. Widely scattered books of muscovite are in the main mass of the pegmatite.

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NOTE: Most of the above report was taken from an unpublished description of the Sheep Mountain Mine prepared April 8, 1944 by E. Wm. Heinrich of the U. S. Geological Survey. There has been no change in the workings since Heinrich report was prepared.

July 31, 1952

A. L. Peyton
U. S. B. M.

K. H. Teague,
U.S.G.S.

FILE COPY
SURNAME:

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

SAFeitler
Houk
Selfridge
Schmeisser

JUL 21

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 01, Tennessee

Subject: Docket No. DMEA-2580 - Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Dear Mr. Laurence:

This is to request a field examination at the above mine located on Moses Creek in Caney Fork Township, Jackson County, North Carolina. A copy of the application is in your file and a copy of a memorandum from the U. S. Geological Survey and one from the U. S. Bureau of Mines are enclosed.

The usual examination is needed with special attention being given to the lease boundaries as only two acres are included. If exploration is warranted, a suitable program and estimate of costs should be included.

Sincerely yours,

George C. Selfridge (GHB)

ACTING Chairman, Operating Committee
Defense Minerals Exploration
Administration

Approved:

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

T. P. Thayer (GHB)
Member, Geological Survey

Enclosures - 2

SAFeitler:mp 7/18/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

FILE COPY
SURNAME:

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

600

JUL 21 1952

SAFeitler
Hook
Thayer
Hughes
Lefkowitz
Johnson

Mr. J. W. Swayngim
East Laporte
North Carolina

Subject: Docket No. DMEA-2530 Mica
Wilson and Lovedahl Mica Mine
Jackson County, North Carolina

Dear Mr. Swayngim:

Your application is being referred to Mr. Robert A. Laurance, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 01, Tennessee, for further information.

Your lease provides that all mica be sold to the Government at Sylva, North Carolina. This paragraph seems to be unreasonably restrictive. The Government maintains no purchasing depot at Sylva and it will buy only certain qualities of mica. Furthermore, the present Government purchase program is to end June 30, 1955, or sooner, although your lease runs to April 15, 1957, and may be extended for five years. A suggested rewording of this provision follows:

> Said party of the second part will offer to sell all mica taken from the aforesaid mine to the Government, its agencies or assigns, at the prices established by it if of acceptable quality. All mica not of such quality may be disposed of through the usual channels. Party of the first part shall be furnished with an itemized statement of each sale of mica.

Enclosed are eight copies of Form MF-203, "Owner's Consent to Lien". As you are a lessee, you should have six copies signed by the lessor and send them to this office. Do not fill in the amount of the contract. All other blank spaces may be filled in or they will be completed here when and if a contract is written.

Sincerely yours,

(signed) FRANK E. JOHNSON (for)

Acting Administrator
Defense Minerals Exploration
Administration

Enclosures - 9

SAFeitler:mp 7/18/52
cc: Docket File
Adm. Reading File
Operating Committee
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Hook
Field Team, Region VII

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

July 15, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2580, J. W. Swayngim, East Laporte
North Carolina

On the basis of the applicant's description of past operations and present exposures, a field team investigation is recommended. The Geological Survey (Professional Paper 225, p. 87) tested 528 pieces indicating 100 percent of E-1 capacitor quality. Applicant indicates past production valued at approximately $52,000 during World War I.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 15 1952

IN REPLY REFER TO:

G-MD-PLW

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

S & P

June 18, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 18 1952

Memorandum

REVIEW OF APPLICATION DMEA-2580 (Mica).

To: L. G. Houk, Non-Metallic Minerals Division, DMEA.
From: P. L. Weis, U. S. Geological Survey.
Applicant: J. W. Swayngim.
Name of property: Wilson and Lovedahl (Sheep Mountain) Mine.
Location of property: Caney Fork Township, Jackson County, North Carolina.
Estimated cost of project: $7,500.
Summary of applicant's proposal:

(1) Preliminary bulldozing and retimbering tunnel opening.
(2) Shaft or drift along pegmatite.

Sources of information on applicant's property:

(1) Jahns, R. H., Mica deposits of the Blue Ridge Province of North Carolina and Georgia. In preparation, U. S. Geological Survey.
(2) Colonial Mica Corporation purchase records.

Comments:

(1) Jahns states in his report that the pegmatite has been explored over a horizontal distance of 170 feet and a vertical distance of 120 feet. He states the mica is a maximum of 6 inches and an average of 3 inches in diameter, hard, unwarped, but commonly reeved, and nearly all is spotted. Jahn's report is not clear as to whether or not additional exploration is warranted, but the general tone of the report is pessimistic. A copy of Jahn's report is being sent to the field team.
(2) Applicant states that commercial quantities of mica have been produced. Colonial Mica Corporation lists a total purchase of 39 lbs. during the war years.
(3) In view of the small production and poor quality of the mica from past operations, the amount of exploration proposed may be excessive.

RECOMMENDATION: Refer to field team.

Paul L. Weis

Paul L. Weis

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2580
Metal or Mineral
Date Received 6-12-52
Amount $
Participation (Government %)

Name and address of applicant

J. W. Swayngim
East Laporte
North Carolina

Date June 6, 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

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

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

DEPARTMENT OF THE INTERIOR
Defense Minerals
JUN 12 1952

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

CERTIFICATION

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

(Name of company) By J W S Waynzin (Signature of authorized official)

June 10, 1952 (Date) Lessee (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

J. W. Swayngim
East Laporte
North Carolina

1. (a) Two acres of land known as the Wilson and Lovedahl mica mine, (sometimes called Sheep Mountain Mine) located on Moses Creek, Caney Fork Township, Jackson County, North Carolina, upon lands owned by the Mead Corporation. Mine is 1500 feet from Moses Creek Road about 3 miles from junction of Moses Creek and Caney Fork.
   (b) Copy of lease is attached.
   (c) (Copy here description from lease)
   See also attached plat.

2. (a) Mica, sheet or pattern, scrap mica, and feldspar, and related or associated minerals.
   (b) See attached plat.
   Pegmatite formations open to view is 12 feet in width, and 25 feet in length, of type consistent with discovery of mica, feldspar, quartz, flint and granite. Rock (granite) is of hard type. This mine was worked during W.W.I. and had net sales during that period of approximately $52,000. See statement attached from foreman in charge of that operation.

3. (a) Exploration work will consist about five days bulldozer work and retimbering of lower tunnel opening; then setting up necessary but limited facilities to house compressor, tools and supplies; actual exploration will consist of sinking a shaft or tunnel following course of vein now showing on floor of upper tunnel and working to area of vein lying between two tunnels in this vein which runs from one to other.
See attached sketch for rough idea of what is contemplated in order to properly carry out proposed exploration. Total cost of operation would be in neighborhood of ~~$[illegible]~~ $7500.
   (b) Estimated time in working days to start and complete the project is as follows: 1. 30 working days to start project
   2. 90 " " " complete project

4. See sketch.

5. There are no existing facilities or installations in usable condition.

6. Needed facilities will include:

Items	Estimated Cost
(a) Compressor house and storage shed	$600.00

7. Operating equipment needed will include:
   (a) Rented:
   One compressor at $200. per month - $1000.00
   (b) Purchased:
   Jack hammer 200.00
   Hand car and rails 600.00
   (c) Furnished by applicant:
   Jack hammer hose and accessories
   Jack hammer steel
   One truck at $100. per month
   Small supply of hand tools
   Applicant will also furnish general supervision and his personal labor.

8. Labor required:

One foreman - Jack hammer man	at $12.00 per day -	$1440.00
Two muckers -	at 8.00 " " -	1920.00
		$3360.00

9. Materials, Supplies:

Additional hand tools:	$100.00
Dynamite	500.00
Oil and fuel at $6.00 per day	540.00

10. (a) Applicant will furnish for purpose of this operation the following:
Jack hammer and accessories
Jack hammer steel
One truck at $100. per month - $500.00
Small supply of hand tools
In addition applicant will furnish his personal supervision and labor, the reasonable value of which would be estimates at from $12.00 to $15.00 per day.

11. None

Summary of Estimated Expense

Bulldozer work	$ 400.00
Needed facilities	600.00
Rented items - compressor	1000.00
Purchased items	1000.00
Labor	3360.00
Materials and supplies	1140.00
	$7500.00

If need be, due to difficulty of obtaining same, the hand car and rails could be eliminated, thereby reducing costs by amount of $800.00, for a total of $6700.00.

NORTH CAROLINA
JACKSON COUNTY

THIS LEASE AGREEMENT, made and entered into this the 15th day of April, 1952, by and between THE MEAD CORPORATION, a corporation duly created, organized and existing under and by virtue of the laws of the State of Ohio, with its principal office in Dayton, Ohio, party of the first part and J. W. Swayngim of Jackson County, North Carolina, party of the second part:

W I T N E S S E T H:

That subject to the terms and conditions hereinafter set forth, and in consideration of the premises and the sum of One ($1.00) Dollar mutually paid by the parties hereto each to the other, said party of the first part does hereby lease unto said party of the second part, and said party of the second part does hereby accept the exclusive right and privilege to mine, dig, extract, mill, process and remove all mica now in, under or upon a certain tract or parcel of land lying and being in Caney Fork Township, Jackson County, North Carolina, and more particularly described as follows:

> BEING that parcel or tract of land upon which the mine known as the Wilson and Lovedahl Mica Mine is located on Moses Creek, Caney Fork Township, Jackson County, North Carolina, said parcel or tract of land being a small portion of that formerly owned by the Blackwood Lumber Company; provided, nevertheless, that said land hereby leased shall consist of only that portion of the lands known as the Blackwood Lumber tract upon which is actually located the mine known as the Wilson and Lovedahl Mine and the veins of mica extending therefrom but in no event shall said tract or parcel of land consist of an area by surface measurement of more than two (2) acres.

The terms and conditions of this lease are as follows:

Unless sooner terminated, as herein provided, this lease shall exist and continue until the 15th day of April, 1957.

It is understood and agreed that the party of the second part shall commence mining operations within sixty days from this date and shall keep the mine in continuous operation for the duration of this lease. If for any reason the mine is not operated for a period of as much as sixty consecutive days, then this lease shall be terminated, upon notice from the party of the first to the party of the second part.

As rental, the said party of the second part shall pay to the party of the first part a royalty of twelve and one-half per cent (12½%) of the gross sales price of all mica removed from said land; said royalty to be paid on or before the 15th day of each calendar month hereafter for the mica mined and sold during the preceding calendar month.

Said party of the second part will sell all mica taken from the aforesaid mine to the Government of the United States its agencies or assigns at Sylva, Jackson County, North Carolina, and party of the first part shall be furnished with an itemized statement of each sale thereof.

The party of the second part shall keep a correct and itemized record of all operations and transactions under this lease and such records may be at any time inspected by the party of the first part.

So long as this lease remains in full force and effect said party of the second part shall have the right to use the surface of the lands whereon said mine is located as aforesaid for mining purposes, with the additional privilege to use the nearest timber and water as is necessary for carrying on said mining operations and said party of the second part hereby covenants and agrees not

to make any waste in mining operations and to carry out said operations in a true and workmanlike manner.

Said party of the second part shall have a right-of-way across the lands of said party of the first part to the nearest available water supply necessary to be used in said mining operations together with a right-of-way of a road across other property of said party of the first part from said mine to the public road known as the Moses Creek Road.

Said party of the second part shall have the option to renew this lease for a period of five (5) years from and after the 15th day of April, 1957, provided said party of the second part gives a ninety (90) day notice of his intention to renew said lease by registered mail during the last six months in which this lease is to be effective.

It is understood and agreed, however, that the rights as above set out shall be restricted by and shall extend no further than, the rights which the said party of the first part has in and to the above described lands.

IN WITNESS WHEREOF, said party of the first part by its Manager in charge of Wood Procurement and Outside Holdings, R. U. Sutton, of the Sylva Division of The Mead Corporation, and said party of the second part have hereunto set their hands and affixed their seals this the day and year first above written.

(Sgd.) R. U. Sutton (SEAL)

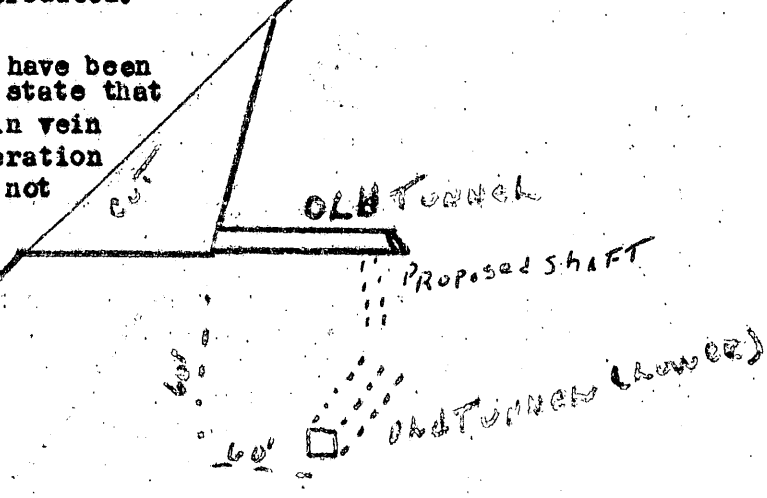
(Sgd.) J. W. Swayngim (SEAL)

Upper Tunnel, 7 x 6 feet, open now, in good shape.
Lower Tunnel, same size, but is caved in at entrance due to rotting of timbering at mouth and dirt slide. This condition at lower tunnel will be remedied by cleaning off and re-timbering opening. Both tunnels are in solid granite type rock.

Mica shows in considerable size books in rock cliff above upper tunnel opening. This mica was never touched. Mine was originnally worked by shooting down mica from cliff and getting as much as possible from surface as is indicated by size of cut. Then tunnel operation was started.

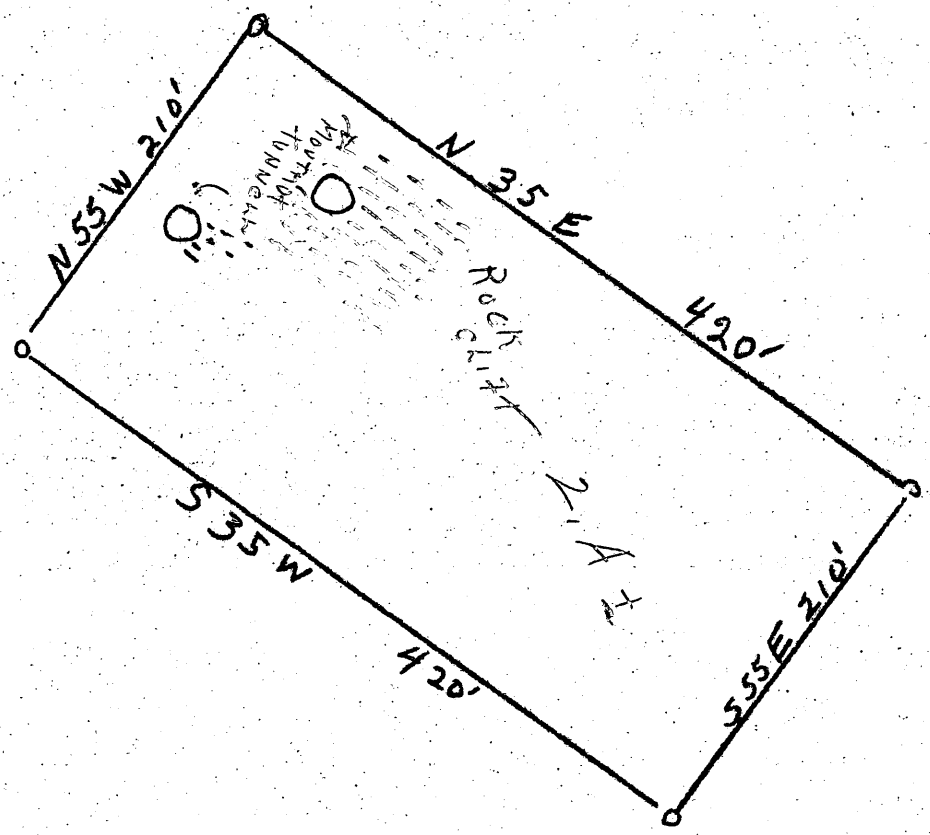
All mica previously mined was good ruby mica, no "A" or electric mica was produced.

~~xxxxxx~~ Commercial quanities have been taken out. Former operators state that there was considerable left in vein in lower tunnel when last operation stopped. Actual reserves do not appear to have been touched.



Lower tunnel can be re-opened easily by cleaning up, and refacing and removal of slide dirt, and re-timbering opening. A certain amount of bulldozer work will be necessary. Inner part of lower tunnel was in solid rock following vein. Lower tunnel was made for purpose of intersecting at a lower level the vein running downward from end of upper tunnel.

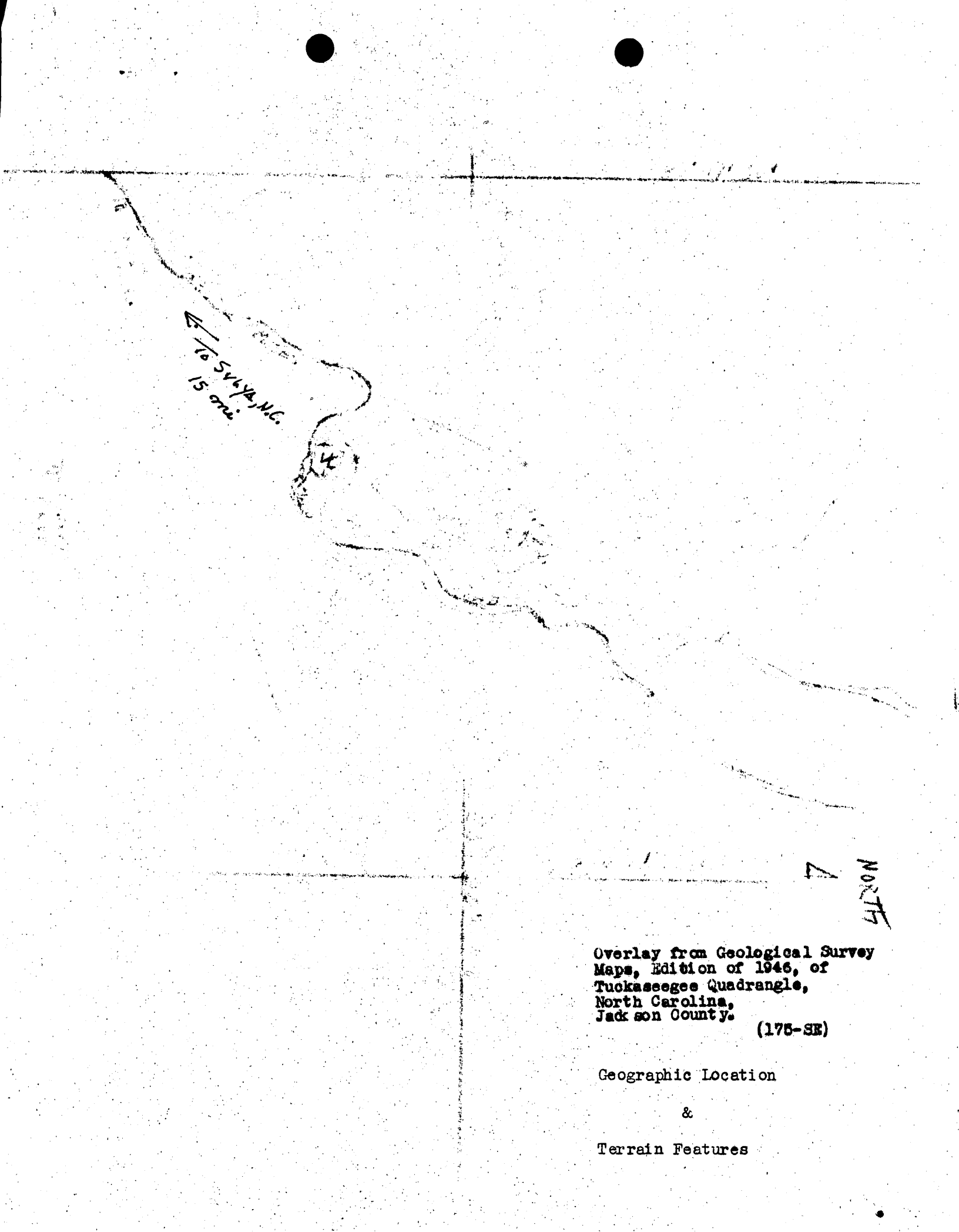
Sketch of "Sheep Mountain Mine"
Jackson County, N. C.



MAGNETIC MERIDIAN APRIL 1952

1 INCH = 100 FEET

SURFACE MEASUREMENT



Overlay from Geological Survey
Maps, Edition of 1946, of
Tuckaseegee Quadrangle,
North Carolina,
Jackson County.
(175-SE)

Geographic Location

&

Terrain Features

NORTH CAROLINA)
)
JACKSON COUNTY)

AFFIDAVIT

This is to Certify that the undersigned, Oscar Lovedahl, citizen and resident of Jackson County, North Carolina, was foreman for Hooper Lovedahl and John Wilson at what is known as the Sheep Mountain Mica Mine, fifteen miles southeast of Sylva, North Carolina, from July, 1915, until May, 1918, and that I do know that the net sales of mica from this mine was better than $62,000 and all work was done by hand.

Also the largest block of mica mined in this section of North Carolina was taken out of this mine and measured thirty inches thick by two feet wide by six feet in length, and over one thousand pounds of top grade sheet mica came from this one block. This mine had the reputation and did yield the highest percentage of sheet mica from the vein of any mine in the section during the time it was being worked.

This the 10 day of June, 1952.

Oscar Lovedahl
Affiant

Sworn to and subscribed before me this the 10th day of June, 1952.

David S. Stilwell
Notary Public

My Commission Expires:
April 23, 1954

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 12 19

EXPLORATION

Subject: DMEA-2580
Re: Exploration Loan
Wilson and Lovedahl Mica Mine
June 12, 1952

Mr. J. W. Swayngim
East Laporte
North Carolina

My dear Mr. Swayngim:

This will acknowledge receipt of your application dated June 6, 1952, for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2580 and referred to the Non-Metallic Minerals Division.

Kindly refer to DMEA-2580 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Administrative Officer

7862

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. DMEA-2580
Metal or Mineral
Date Received 6-12-52
Amount $
Participation (Government %)

Name and address of applicant

J. W. Swayngim
East Laporte
North Carolina

Date June 6, 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 12 1952

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

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

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

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

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

CERTIFICATION

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

(Name of company)	By J. W. Swayngim (Signature of authorized official)
June 10, 1952 (Date)	Lessee (Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

J. W. Swayngim
East Laporte
North Carolina

1. (a) Two acres of land known as the Wilson and Lovedahl mica mine, (sometimes called Sheep Mountain Mine) located on Moses Creek, Caney Fork Township, Jackson County, North Carolina, upon lands owned by the Mead Corporation. Mine is 1500 feet from Moses Creek Road about 3 miles from junction of Moses Creek and Caney Fork.
   (b) Copy of lease is attached.
   (c) (Copy here description from lease)
   See also attached plat.

2. (a) Mica, sheet or pattern, scrap mica, and feldspar, and related or associated minerals.
   (b) See attached plat.
   Pegmatite formations open to view is 12 feet in width, and 25 feet in length, of type consistent with discovery of mica, feldspar, quartz, flint and granite. Rock (granite) is of hard type. This mine was worked during W.W.I. and had net sales during that period of approximately $52,000. See statement attached from foreman in charge of that operation.

3. (a) Exploration work will consist about five days bulldozer work and retimbering of lower tunnel opening; then setting up necessary but limited facilities to house compressor, tools and supplies; actual exploration will consist of sinking a shaft or tunnel following course of vein now showing on floor of upper tunnel and working to area of vein lying between two tunnels in this vein which runs from one to other.
See attached sketch for rough idea of what is contemplated in order to properly carry out proposed exploration. Total cost of operation would be in neighborhood of $2500.
   (b) Estimated time in working days to start and complete the project is as follows: 1. 30 working days to start project
   2. 90 " " " complete project

4. See sketch.

5. There are no existing facilities or installations in usable condition.

6. Needed facilities will include:

Items	Estimated Cost
(a) Compressor house and storage shed	$600.00

7. Operating equipment needed will include:
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   One compressor at $200. per month - $1000.00
   (b) Purchased:
   Jack hammer 200.00
   Hand car and rails 800.00
   (c) Furnished by applicant:
   Jack hammer hose and accessories
   Jack hammer steel
   One truck at $100. per month
   Small supply of hand tools
   Applicant will also furnish general supervision and his personal labor.

8. Labor required:

One foreman - Jack hammer man	at $12.00 per day -	$1440.00
Two muckers -	at 8.00 " " -	1920.00
		$3360.00

9. Materials, Supplies:

Additional hand tools:	$100.00
Dynamite	500.00
Oil and fuel at $6.00 per day	540.00

10. (a) Applicant will furnish for purpose of this operation the following:

Jack hammer and accessories
Jack hammer steel
One truck at $100. per month - $500.00
Small supply of hand tools

In addition applicant will furnish his personal supervision and labor, the reasonable value of which would be estimates at from $12.00 to $15.00 per day.

11. None

Summary of Estimated Expense

Bulldozer work	$ 400.00
Needed facilities	600.00
Rented items - compressor	1000.00
Purchased items	1000.00
Labor	3360.00
Materials and supplies	1140.00
	$7500.00

If need be, due to difficulty of obtaining same, the hand car and rails could be eliminated, thereby reducing costs by amount of $800.00, for a total of $6700.00.

COPY

NORTH CAROLINA
JACKSON COUNTY

THIS LEASE AGREEMENT, made and entered into this the 15th day of April, 1952, by and between THE MEAD CORPORATION, a corporation duly created, organized and existing under and by virtue of the laws of the State of Ohio, with its principal office in Dayton, Ohio, party of the first part and J. W. Swayngim of Jackson County, North Carolina, party of the second part:

W I T N E S S E T H:

That subject to the terms and conditions hereinafter set forth, and in consideration of the premises and the sum of One ($1.00) Dollar mutually paid by the parties hereto each to the other, said party of the first part does hereby lease unto said party of the second part, and said party of the second part does hereby accept the exclusive right and privilege to mine, dig, extract, mill, process and remove all mica now in, under or upon a certain tract or parcel of land lying and being in Caney Fork Township, Jackson County, North Carolina, and more particularly described as follows:

> BEING that parcel or tract of land upon which the mine known as the Wilson and Lovedahl Mica Mine is located on Moses Creek, Caney Fork Township, Jackson County, North Carolina, said parcel or tract of land being a small portion of that formerly owned by the Blackwood Lumber Company; provided, nevertheless, that said land hereby leased shall consist of only that portion of the lands known as the Blackwood Lumber tract upon which is actually located the mine known as the Wilson and Lovedahl Mine and the veins of mica extending therefrom but in no event shall said tract or parcel of land consist of an area by surface measurement of more than two (2) acres.

The terms and conditions of this lease are as follows:

Unless sooner terminated, as herein provided, this lease shall exist and continue until the 15th day of April, 1957.

COPY of lease

It is understood and agreed that the party of the second part shall commence mining operations within sixty days from this date and shall keep the mine in continuous operation for the duration of this lease. If for any reason the mine is not operated for a period of as much as sixty consecutive days, then this lease shall be terminated, upon notice from the party of the first to the party of the second part.

As rental, the said party of the second part shall pay to the party of the first part a royalty of twelve and one-half per cent ($12\frac{1}{2}\%$) of the gross sales price of all mica removed from said land; said royalty to be paid on or before the 15th day of each calendar month hereafter for the mica mined and sold during the preceding calendar month.

Said party of the second part will sell all mica taken from the aforesaid mine to the Government of the United States its agencies or assigns at Sylva, Jackson County, North Carolina, and party of the first part shall be furnished with an itemized statement of each sale thereof.

The party of the second part shall keep a correct and itemized record of all operations and transactions under this lease and such records may be at any time inspected by the party of the first part.

So long as this lease remains in full force and effect said party of the second part shall have the right to use the surface of the lands whereon said mine is located as aforesaid for mining purposes, with the additional privilege to use the nearest timber and water as is necessary for carrying on said mining operations and said party of the second part hereby covenants and agrees not

to make any waste in mining operations and to carry out said operations in a true and workmanlike manner.

Said party of the second part shall have a right-of-way across the lands of said party of the first part to the nearest available water supply necessary to be used in said mining operations together with a right-of-way of a road across other property of said party of the first part from said mine to the public road known as the Moses Creek Road.

Said party of the second part shall have the option to renew this lease for a period of five (5) years from and after the 15th day of April, 1957, provided said party of the second part gives a ninety (90) day notice of his intention to renew said lease by registered mail during the last six months in which this lease is to be effective.

It is understood and agreed, however, that the rights as above set out shall be restricted by and shall extend no further than, the rights which the said party of the first part has in and to the above described lands.

IN WITNESS WHEREOF, said party of the first part by its Manager in charge of Wood Procurement and Outside Holdings, R. U. Sutton, of the Sylva Division of The Mead Corporation, and said party of the second part have hereunto set their hands and affixed their seals this the day and year first above written.

(Sgd.) R. U. Sutton (SEAL)

(Sgd.) J. W. Swayngim (SEAL)

NORTH CAROLINA)
)
JACKSON COUNTY)

AFFIDAVIT

This is to Certify that the undersigned, Oscar Lovedahl, citizen and resident of Jackson County, North Carolina, was foreman for Hooper Lovedahl and John Wilson at what is known as the Sheep Mountain Mica Mine, fifteen miles southeast of Sylva, North Carolina, from July, 1915, until May, 1918, and that I do know that the net sales of mica from this mine was better than $52,000 and all work was done by hand.

Also the largest block of mica mined in this section of North Carolina was taken out of this mine and measured thirty inches thick by two feet wide by six feet in length, and over one thousand pounds of top grade sheet mica came from this one block. This mine had the reputation and did yield the highest percentage of sheet mica from the vein of any mine in the section during the time it was being worked.

This the 10 day of June, 1952.

Oscar Lovedahl
Affiant

Sworn to and subscribed before me this the 10th day of JUNE, 1952.

David S. Stilwell
Notary Public

My Commission Expires:
April 23, 1954

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 13 1952

NORTH CAROLINA)
)
JACKSON COUNTY)

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David S. Stillwell

Notary Public

My Commission Expires:
April 23, 1954

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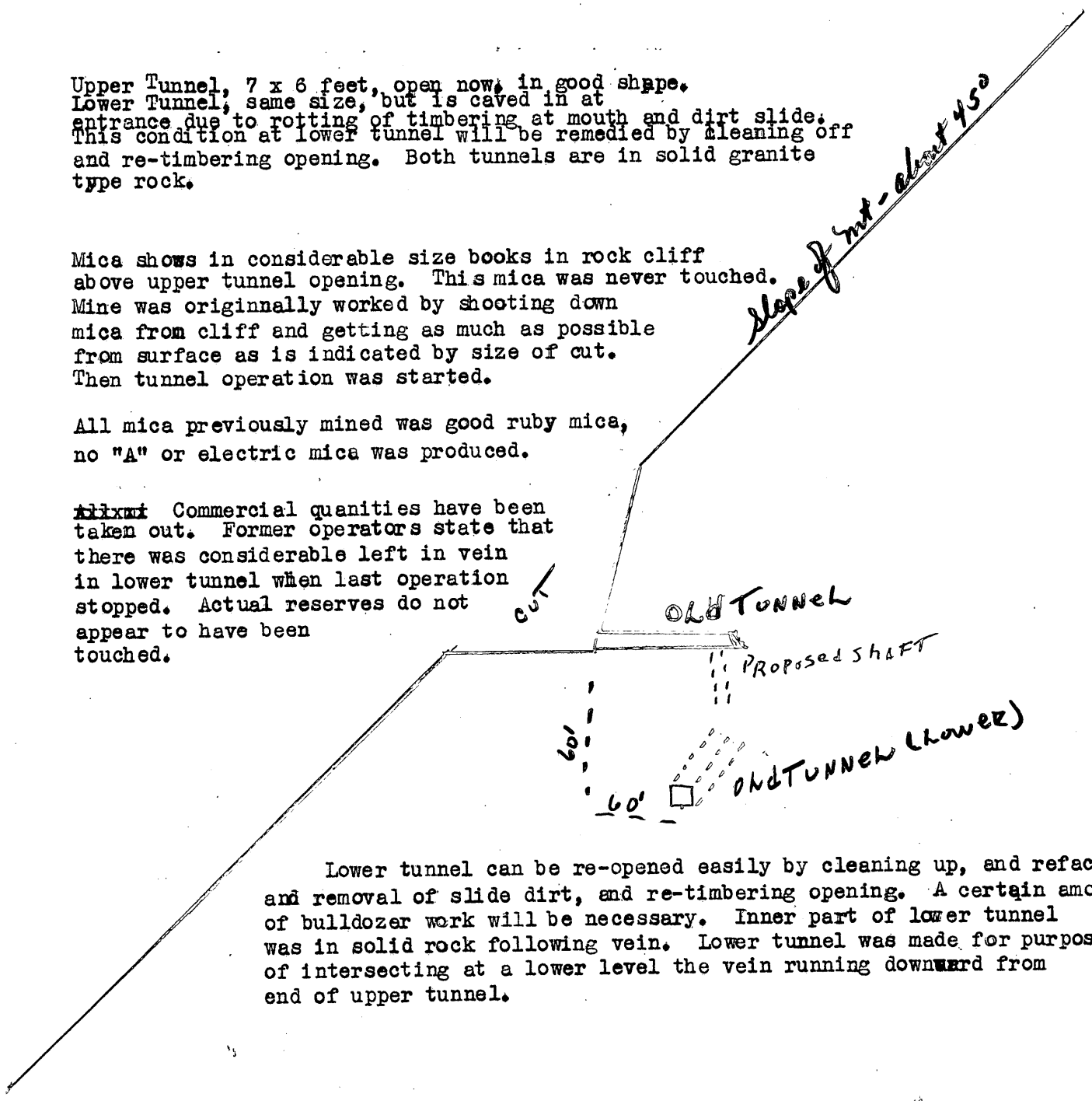
Upper Tunnel, 7 x 6 feet, open now, in good shape.
Lower Tunnel, same size, but is caved in at entrance due to rotting of timbering at mouth and dirt slide. This condition at lower tunnel will be remedied by cleaning off and re-timbering opening. Both tunnels are in solid granite type rock.

Mica shows in considerable size books in rock cliff above upper tunnel opening. This mica was never touched. Mine was originnally worked by shooting down mica from cliff and getting as much as possible from surface as is indicated by size of cut. Then tunnel operation was started.

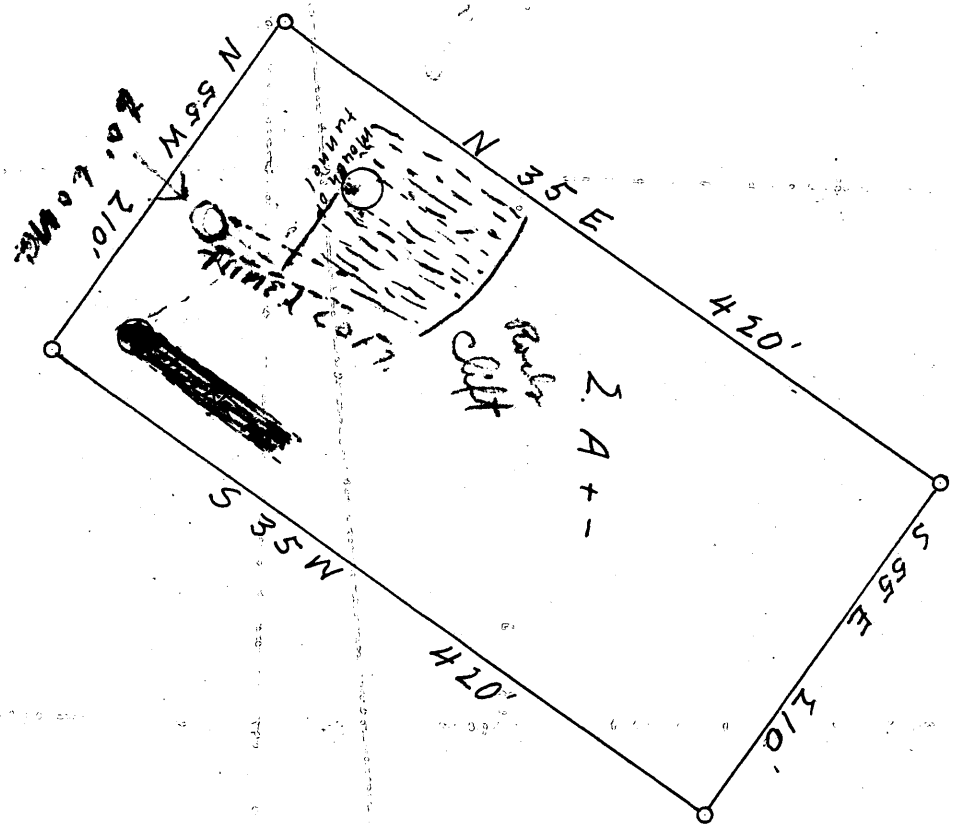
All mica previously mined was good ruby mica, no "A" or electric mica was produced.

~~Ahxxx~~ Commercial quanities have been taken out. Former operators state that there was considerable left in vein in lower tunnel when last operation stopped. Actual reserves do not appear to have been touched.



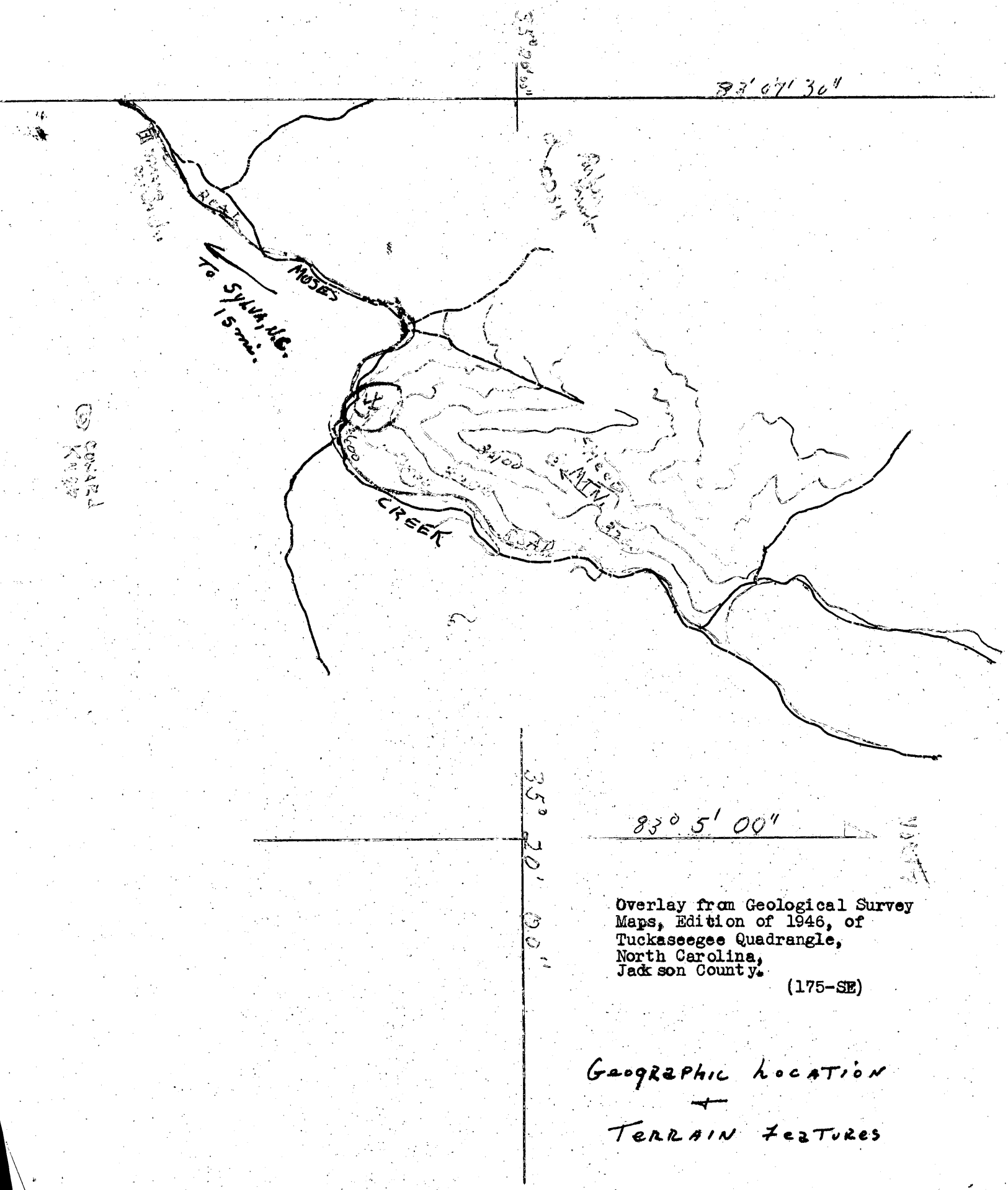
Lower tunnel can be re-opened easily by cleaning up, and refacing and removal of slide dirt, and re-timbering opening. A certain amount of bulldozer work will be necessary. Inner part of lower tunnel was in solid rock following vein. Lower tunnel was made for purpose of intersecting at a lower level the vein running downward from end of upper tunnel.

Sketch of "Sheep Mountain Mine"
Jackson County, N. C.



Magnetic Meridian April, 1952.

1 Inch = 100 Feet.
Surface Measurement.



Overlay from Geological Survey Maps, Edition of 1946, of Tuckaseegee Quadrangle, North Carolina, Jackson County.

(175-SE)

Geographic location + Terrain features

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KAROLTON KLASP 8¾ X 11¼
"MADE IN U. S. A."
THE AMERICAN ENVELOPE CO.
WEST CARROLLTON, OHIO

FROM: J. W. SWAYNGIM
EAST LAPORTE
NORTH-CAROLINA

INTERIOR
JUN 11 1952
SECRETARY'S MAIL CENTER

DEFENSE MINERALS ADMINISTRATION

DEPARTMENT OF INTERIOR

WASHINGTON 25, D. C.

ATTENTION OF MINERALS EXPLORATION DIVISION

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