MF-200 (A)
(February 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 13 1952

DOCKET NO. DMEA 236

COMMODITY Mica

Idm-E405

Docket Copy

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

(Short Form)

IT IS AGREED this 25th day of September, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] . B. Chrisnawn of Henrietta, and Harris Gibbs of Gulo, North Carolina, partners

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of North Carolina, County of Yancey, known as Westall Mine described as follows:[3] Beginning at Corner #5 of U.S. Forest Service Tract #115, Mt. Mitchell District of Pisgah Natl. Forest, Yancey County, N.C., thence N. 10 chains to a point, thence E. 3 chains to the S.E. corner of mine plot, thence N. 6 chains to corner #2 of Plot; thence N.80°E.,13 chains to Corner 3 of Plot; thence W. 3 chains to Corner 4 of Plot; thence S.80°E.,13 chains to Beginning corner of plot

the Operator represents and undertakes:[4]

(*a*) ~~That the Operator is the owner of the land, or has a lease, or other interest therein agreed upon by the Government, and the Owner's Consent to Lien is attached.~~

(*b*) That the Operator is a lessee, in possession and entitled to possession, ~~and the Owner's Consent to Lien is attached.~~

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for[5] Mica

in or upon the described land; and shall bring the project to completion within a period of 4 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 90 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $2,880.00, which is 90 percent of $3,200.00, the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided*, that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if, in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* .....

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By W. B. Ohrisan (Partner)

By Harris Gibbs (Partner)

By Frank E. Johnson
ACTING Administrator, Defense Minerals Exploration Administration

Hotchkiss Chandler

I, , certify that I am the secretary of the corporation named as Operator herein; that , who signed this contract on behalf of the Operator, was then of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

EXPLORATION PROJECT CONTRACT
W. B. CHRISAWN AND HARRIS GIBBS
DOCKET NO. DMEA-2368

EXHIBIT "A"

Description of the Work

Rehabilitate approximately 180 feet of adit marked Portal #1 on the map attached hereto and made a part hereof and entitled "Westall Mine Underground Workings--DMEA-2368." This is to include timbering the portal and any other areas needing support for safety as well as laying track and pipe in the rehabilitated part of the adit.

Drive 60 feet of 5' x 7' crosscut and drift in a northwesterly direction starting approximately 180 feet in from the portal, as indicated on the above-mentioned map. The Government is to specify the location and direction of this work.

Estimated Costs of the Project

Rehabilitate portal and 180 feet of adit including supplying and placing mine rail and such timber as is necessary to make the portal and adit safe	$ 800.00	
Drive 60 feet of 5' x 7' crosscut and drift at $40.00 per foot including all costs	2,400.00	
Total estimated cost of the project		$3,200.00
Government Participation @ 90%		$2,880.00

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2368

DO NOT DETACH THIS SLIP

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

This document has been recorded as

EXPLORATION 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 USGS & USBM. VII. ONE RETAINED IN REG./

To:	CODE600 Rm/ 4637	Date	2-11-52
To:	Feitler	Date	2/12/52
To:	Op Com	Date	8/29/52
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

DMEA-2368

Final Report On Westall Mica Mine

On Oct. 15 1952 Commenced work on portal of Tunnel
Cleaning out and timbering up Entrance of Portal of
Tunnel. Caving tract from dump about 220 ft.
Up into Tunnel of portal no 1 - 180 ft from portal
To point of new Tunnel.
Had tractor haul in lumber for laying overhead
Also hauled in Compressor on 19 of Oct.
On 20-21 set up machinery. And started drilling
And moving out waste.
Running drift in westerly direction 40 ft.
Then North 30 East 20 ft According to Engineers
Last 20 ft hit small Colm of Mica it was
Small Mica badly ruled and broken
Not of a Quality to pay.
Completing job in About 3½ Months

Harris Gibbs Partner,

RECEIVED
FEB 26 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

DMEA-2368

Final Report On Westall Mica Mine

On Oct. 15-1952 Commenced Work on portal of Tunnel
Cleaning out and Timbering up Entrance of portal.
laying road from dump About 220 ft up into Tunnel
of portal No. 1 180 ft from portal to point of new
Tunnel. Had Tractor haul in lumber for
lifting over head.
Also hauled in Compressor on 19 of Oct.
On 20-21 Set up machinery and Started
drilling and moving out waste.
Running drift in a westerly direction 40 ft.
Thence North 30 East 20 ft according to Engineers
averaging about 20 ft per month.
Last 26 ft hit small Colm of mica it was
small mica badly ruled and Broken
Not of a quality to pay.
Completing job in about 3½ months.

Harris Gibbs Partner

RECEIVED
FEB 26 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

DMEA-2368

Final Report on Westall Mica Mine

On Oct. 15 1952 Commenced Work on Portal of Tunnel
Cleaning out and timbering up entrance of portal,
laying tract from dump about 220 ft up into tunnel
of portal no 1,80 ft. from portal to point of New
tunnel. Had tractor haul in lumber for
lifting over head.
Ellro hauled in Compressor on 19 of oct.
On 20-21 set up machinery and started
drilling and moving out waist.
Running drift in a westerly direction 40 ft.
Thence North 30 East 20 ft according to Engineers
averaging about 20 ft. per month.
Last 20 ft hit small calm of mica it was
small mica badly ruled and broken
Not of a quality to pay.
Completing job in about 3½ months

Harris Gilbert Partner

RECEIVED
FEB 26 1953
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

FILE COPY
SURNAME:

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

AUG 21 1953

Mr. W. B. Chrisawn

Henrick, North Carolina

Re: Docket No. DMEA-2368 - Mica
Westall Mine
Yancey County, North Carolina
Contract No. Idm-R405

Dear Mr. Chrisawn:

This is with reference to the subject Exploration Contract between your partnership and the Government.

The final audit of the contract expenditures and the final reports of the Operator and of the Field Team have been received and accepted by this Administration. The total amount of $3,200.00 approved under the contract was expended, 90 percent of which, or $2,880.00, represented the Government's share. There were no unused materials, supplies or equipment to be disposed of for the joint account of the Operator and the Government. The exploration work was completed in a satisfactory manner.

Because the results of the exploration were unfavorable, it is not our intention to make a certification of discovery or development which would create a lien against the subject property. We are, therefore, closing our books and records with respect to this project. Your attention is called, however, to Article 5 (d) of the Contract which requires the Operator to "keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract".

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

Sincerely yours,

C. O. Mittendorf

Administrator

JHopkins:gad 8/14/53
Copy to: Admr. R. File
Docket File
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

8-28-53

FILE COPY
SURNAME:

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

August 14, 1953

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Closing Review of Docket No. DMEA-2368 - Mica
Applicant: W. B. Chrisawn, Hamrick, North Carolina
Harris Gibbs, Celo, North Carolina
Contract No. Idm-E405
Date of Contract: September 25, 1952
Property: Westall Mine, Yancey County, North Carolina
Contract Amount Approved: $3,200.00
Total Accepted Cost: $3,200.00
Government's share @ 90% $2,880.00
Project work begun: October 15, 1952
Project work completed: January 30, 1953

Project was not certified. There was no significant discovery of mica and the project was ended in accordance with the closing letter attached hereto.

Docket Summary:

2/11/52	Application received requesting $2,000.00 for bulldozing, sinking 40 feet of inclined shaft, and driving 20 feet of crosscut.
2/18/52	Letter to applicant requesting copy of lease and map as well as additional information.
4/8/52	USGS memo suggests closing file due to lack of interest by applicant.
5/14/52	Letter to applicant extending time for reply to 6/2/52
6/2/52	Applicant submitted map of leased area.
8/1/52	Copy of lease obtained from Bureau of Land Management.
8/5/52	USGS memo recommends field examination.
8/6/52	USBM memo recommends field examination.
8/21/52	Received Field Team report recommending:

Rehabilitate Adit of Westall Mine	$800.00
Drive 60' crosscut 5'x7' @ $40.00/ft.	2,400.00
Total	$3,200.00

8/27/52	USGS concurs with field team program.
9/3/52	USBM concurs with field team program.
9/5/52	Letter from field stating, "This Westall Mine has produced ruby mica."
9/9/52	Contract prepared.

6/23/53 Report by Field Team states, "Work conducted under this project failed to reveal a worthwhile deposit of strategic mica, therefore, no certification of discovery should be issued. No additional exploration by DMEA or by private support is justified."

8/7/53 USBM concurs in Field Team recommendation that no certification of discovery be issued for this project.

8/14/53 USGS concurs in Field Team recommendation.

Project Cost: (As reported in Audit Review - Talbert 4/13/52)

The audit review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by contractor		$3,200.00
Exceptions:		
By DMEA Officer	$ -0-	
Herewith	-0-	-0-
		$3,200.00

The contract calls for a 90% participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Two thousand eight hundred eighty and no/100 Dollars

- $2,880.00 -

is considered valid and proper.

Resume:

Under this contract, work completed consisted of rehabilitating and installing 180 feet of track in an old adit, and driving 60 feet of drift and crosscut.

From a point 180 feet from the portal of the adit, a heading was driven N 20° W for 40 feet. At 40 feet the heading was changed to N 50° E along a thin pegmatite stringer. This stringer was followed for 20 feet and yielded approximately 200 pounds of strategic mica. However, the mica is not sufficiently abundant to support a commercial operation.

Unit Cost: All of the work under the project was conducted on a unit cost basis, therefore, there is no salvage value. There were 180 feet of tunnel re-conditioned and a like amount of track installed at an agreed cost of $800.00. The other work consisted of driving 60 feet of crosscut and drift at $40.00 per foot.

Comment: This project was conducted in a satisfactory manner. The Operators followed recommendations of the field examiners to the best of their ability.

The Nonmetallic Minerals Division concurs in the Field Team recommendation that the property should not be certified as a discovery.

Closing of Docket:

The project is not certified as a discovery and the books closed in accordance with a closing letter sent the Operators and signed by the Administrator_____1953.

James Hopkins
Nonmetallic Minerals Division

JHopkins:gad 8/14/53

Copy to: Admr. R. File
Docket File
Mr. Houk

HHK 8-21-53

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

IN REPLY REFER TO:
G-MD-CNM

Defense Minerals Administration
RECEIVED
AUG 17 1953

August 14, 1953

Memorandum

To: L. G. Houk, Defense Minerals Exploration Administration

From: D. M. Larrabee, U. S. Geological Survey

Subject: DMEA-2368, mica.

I agree with the Field Team that no certification should be made, and that no further DMEA work is justified.

D. M. Larrabee

D. M. Larrabee

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

August 7, 1953

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2368, Mica, Westall Mine, Yancey County, North Carolina

I concur in the field team's recommendation that no certification of discovery be issued for this project.

W. F. Dietrich

W. F. Dietrich

Chrisawn

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13, POST OFFICE BLDG.
WASHINGTON 25, D. C.
KNOXVILLE 2, TENN.

June 26, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 1 1953

Memorandum

To: Chairman, Operating Committee-DMEA - Washington

From: Field Team, D M E A - Region 7

Subject: Final Reports (mica)

Transmitted herewith are four copies each on the following:

DMEA-1875, Idm-E314, Fred Arrowood, Operator.

DMEA-~~2386~~ 2368, Idm-E405, Westall Mine, W. B. Chrisawn, Opr.

DMEA-2533, Idm-E407, "A" Mine, Wilson & VanWerry, Oprs.

The Field Team concurs that no certification should be issued on the above contracts.

Robert A. Laurence

Robert A. Laurence, Executive Officer
DMEA Field Team, Region 7

Wm. A. Beck

Wm. A. Beck, for V. J. Lynch
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
7-8-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL REPORT

FIELD TEAM, REGION VII

2368
DMEA-~~2386~~, Idm-E405 WESTALL MINE
(mica)
Y ancey County, North Carolina

By

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

Lawrence E. Shirley, Mining Engineer
U. S. Bureau of Mines

June 23, 1953

Reviewed by
DMEA OPERATING COMMITTEE
7-8-53
(date)

FINAL REPORT
on
DMEA-~~2386~~ 2368, WESTALL MICA MINE (mica)
Contract Idm-E405
Operator: W. B. Chrisawn, Hamrick, N.C. and Harris Gibbs, Celo, N. C.

The Westall mica mine is 3.5 miles S. 13° W. of Celo, Yancey County, North Carolina.

Work conducted under this project failed to reveal a worthwhile deposit of strategic mica, therefore, no certification of discovery should be issued. No additional exploration by DMEA or by private support is justified.

Under this contract work completed consisted of cleaning out and placing timber at adit portal, re-conditioning and installing tract in 180 feet of adit, and driving 61 feet of drift and crosscut. Work began on October 15, 1952 and was completed January 30, 1953.

From a point 180 feet from adit portal, a heading was driven N. 20° W., for 40 feet. Most of the material found in this heading was granitized mica-kyanite gneiss. At 40 feet the heading was changed to N. 50° E. along a thin pegmatite stringer. This stringer was followed for 21 feet and approximately 200 pounds of mica in sizes up to six inches across were recovered. The pegmatite is medium fine grained and composed of quartz, plagioclase feldspar, and scattered books of mica. The mica is not sufficiently abundant to support a commercial operation. It is ruby colored, hard, flat, and clear. Many of the books are badly cracked and some are tied. Of that recovered during the project, only punch sizes could be obtained by working it.

Expenditures:

(a)	Total approved	$3,200.00
(b)	Total cost of project	3,200.00
(c)	Government's share of cost	2,880.00
(d)	Government's share unexpended -- None	
(e)	Value of production during operation - None	

This project was conducted in a satisfactory manner. The Operators followed recommendations of the field examiners to the best of their ability.

All of the work under the project was conducted on a unit cost basis, therefore, there is no salvage value.

Dated: June 23, 1953.

Kefton H. Teague, USGS

L. E. Shirley, USBM.

zm

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 1953

INTERIM REPORT

DMEA-2368 Idm-E405 (mica) WESTALL MINE

OPERATOR: W. B. Chrisawn and Harris Gibbs, Hamrick, Yancey County, N. C. c/o Harris Gibbs, Micaville, N. C.

LOCATION: $3\frac{1}{2}$ miles S 13° W of Celo, Yancey County, N. C.

This project, which consisted of rehabilitating 180 feet of an old adit and driving 60 feet of crosscut, has been completed. The mine was not operating on the day of this visit and the operator was contacted at his residence. Mr. Chrisawn has stated that he plans to drive the crosscut on for another 15-20 feet. The validity of the lease covering this mine site is being contested and the operator has been advised by the Bureau of Land Management to cease all work until this is cleared.

L. E. Shirley
L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

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

February 11, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
[illegible]
[illegible]

INTERIM REPORT

DMEA-2368 Idm-E405 (mica) WESTALL MINE

OPERATORS: W. B. Chrisawn and Harris Gibbs, Hamrick, Yancey County, N. C., c/o Harris Gibbs, Micaville, North Carolina.

LOCATION: 3 1/2 miles S 13° W of Celo, Yancey County, N. C.

This project is nearing completion. The crosscut is now at 58' with only 2' remaining to be driven under Government contract. The operators plan to drive on for at least 15 - 20 feet, using their own money, in order to prove or disprove the presence of a mica bearing pegmatite. During the course of work the crosscut has picked up quartz stringers and some pegmatite material, but nothing that revealed commercial quantities of mica. Mica books recovered have been 3" x 5" and varying smaller sizes. Some of the mica is of good quality, but the majority is bent badly and contains reeves and hair cracks. Color and hardness is good.

The operators are complying with recent safety recommendations made during a safety inspection visit on January 13, 1953. A powder magazine has been constructed about 150' from the mine. Considerable retimbering has been accomplished, and the entire adit has been barred down, along lines recommended.

L. E. Shirley

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

K. H. Teague

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

January 28, 1953

Dmea 2368

February 2, 1953

Mr. W. B. Chrisawn, Mine Operator
Westall Mine
Hamrick, North Carolina

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1953

p.w.

Dear Mr. Chrisawn:

Attached is a Safety Inspection Report of your Westall Mine made by Mr. Roy C. Stott, mining health and safety engineer, on January 13, 1953.

Very truly yours,

M. C. McCall, Chief,
Accident Prevention and Health
Division, Region VII

cc: R. A. Laurence, Room 13, Post Office Bldg., Knoxville 2, Tenn.
W. A. Beck (3) Room 13, Post Office Bldg., Knoxville 2, Tenn.
P. H. Shuford, State Department of Labor, Raleigh, N. C.
J. L. Fitzgerald, Box 7316, Asheville, N. C.
Director, Defense Minerals Exploration Administration, Washington, D. C.
C. H. Ash
J. Westfield
A. Cabriel
J. R. Thoenen, Bureau of Mines, Tuscaloosa, Alabama
R. C. Stott
District Office

mcm

SAFETY INSPECTION REPORT
WESTALL MINE (MICA)
(NEAR) CELO, YANCEY COUNTY, NORTH CAROLINA

January 13, 1953

By

Roy G. Stott
Mining Health and Safety Engineer

Originating Office - Bureau of Mines
210-12 Social Security Building
Birmingham 3, Alabama
M. C. McCall, Chief
Accident Prevention and Health Division
Region VII

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SAFETY INSPECTION REPORT
WESTALL MINE (MICA)
(NEAR) CELO, YANCEY COUNTY, NORTH CAROLINA

January 13, 1953

by

Roy G. Stott
Mining Health and Safety Engineer

INTRODUCTION

This report is based on an inspection made at the request of the Defense Minerals Exploration Administration to determine conditions and practices relating to health and safety and to propose recommendations for correcting hazards. The inspection party consisted of Roy G. Stott, mining health and safety engineer, Bureau of Mines, William A. Beck and Laurence E. Shirley, mining engineers, Defense Minerals Exploration Administration and W. B. Chrisawn, mine operator.

GENERAL INFORMATION

The Westall mine is on lands of the Pisgah Natural Forest reserve and is operated by W. B. Chrisawn of Hamrick, North Carolina and Harris Gibbs of Celo, North Carolina. A prospect loan has been granted by the D. M. E. A. under Docket No. 2368, Contract Idm E-405.

The mine is located about 3-1/2 airline miles S13°W of Celo, Yancey County, North Carolina. It is an old mine being reopened for further prospecting. The mine entrance has been timbered for a distance of 30 feet. Solid rock was first reached at a distance of 60 feet from the entrance. The old mine adit extends 180 feet due west from its hillside opening. At this point a crosscut has been driven about 30 feet in a northerly direction turning gradually to a direction of N40°E for an additional 16 feet. The crosscut is proposed to intersect with a pegmatite vein five feet in advance of the face. The pegmatite vein forms a pipelike body dipping at an angle of 35° in a direction S25°W.

The mine is accessible by roadway from a farm house approximately 3/8-mile downhill.

Two men work at the mine and neither reportedly wears a hard hat.

Drilling is done wet and compressed air is provided from an Ingersoll-Rand U-69 gasoline engine-powered 105 cfm portable compressor.

SAFETY RECOMMENDATIONS

1. A bullet proof storage magazine (200 lb. capacity) should be constructed and placed a distance of at least 200 feet from the mine opening. The magazine should be kept locked at all times.

2. Detonator caps should be stored in a separate locked magazine detached (by a distance of at least 50 feet) from the dynamite magazine.

3. Gasoline, kerosene, grease or carbide should not be stored inside the mine or with explosives. In event of fire men would be trapped inside.

4. The mine entrance should be more securely timbered with top caps and top lagging. The timber should extend from the entrance to solid rock.

5. At least two 6-foot scaling bars should be provided and loose rock on the top and sides of the face and haulageway thoroughly barred down.

6. Men should "candle" their way into their working place after blasting and after idle periods. Should the candle go out the men should retreat and ventilate the face with compressed air. Carbon monoxide was detected at the face by means of a colorimetric detector and it is strongly recommended the face be more adequately ventilated.

7. Burning of kerosene soaked paper at the face to stir up ventilation air current should be discontinued. Fumes given off by the fire is very hazardous for men to breathe.

8. Miners should be required to wear hard hats.

9. The muck pile and the face area should be thoroughly wetted down after blasting. This practice helps in keeping down dust and removes the more soluble blasting gases.

10. The air compressor receiver should be drained at the bottom daily.

11. The electric blasting lines should be kept twisted together at the mine entrance at all times except when ready to blast after men are out of the mine.

MISCELLANEOUS

Chrisawn stated he was not permitted to cut timber on forest property or allowed to transport timber from his own lands. The inspecting party conferred with George Vidas, Toccane district forest rangerrat Burnsville, North Carolina on January 15, 1953. Vidas assured us that he would cooperate to see that Chrisawn gets mine timbers.

ACKNOWLEDGMENT

The cooperation of Mr. Chrisawn during the conduction of this inspection is gratefully acknowledged.

Respectfully submitted,

/s/ Roy G. Stott
Roy G. Stott
Mining Health and Safety Engineer

INTERIM REPORT

IMEA-2368 Idm-E405 (mica) WESTALL MINE

OPERATORS: W. B. Chrisawn and Harris Gibbs, Hamrick, Yancey County, North Carolina, c/o Harris Gibbs, Micaville, North Carolina.

LOCATION: 3 1/2 miles S 13° W of Celo, Yancey County, North Carolina.

This project is progressing satisfactorily. Present crosscut heading is at 33 feet. Massive feldspar with some quartz was observed at the face. Other material seen was micaceous gneiss. The operator has installed a new water system for supplying water to the drill and is no longer using dry heads for drilling. All loose rock has been scaled or shot in adit. Suggestions made at time of this visit included retimbering of areas in the adit effected by recent shooting and barring down loose boulders where necessary. The operator is of the opinion that vein material will be encountered within 15 feet from present working location.

L. E. Shirley

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

December 16, 1952

INTERIM REPORT

DMEA-2568 Idm-E405 (mica) WESTALL MINE

OPERATORS: W. B. Chrisawn and Harris Gibbs, Hamrick, Yancey County, North Carolina.

LOCATION: 3½ miles S 13° W of Celo, Yancey County, North Carolina.

The Field Team was accompanied on this visit to the mine by Harris Gibbs and W. B. Chrisawn. Present heading in drift has advanced to 14 feet. Drift is in pegmatite material which consists of quartz and feldspar. No mica has been found to date. Operators are using dry heads in drilling, which necessitates the use of respirators. It was suggested that this condition be eliminated as quickly as possible because of dangers involved. This project began work again November 12, 1952 after permission was granted from Forest Service Officials. This project is progressing satisfactorily.

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

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

November 19, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1952

INTERIM REPORT

DMEA-2368 Idm-8406 (mica) WESTALL MINE

OPERATORS: W. B. Chrisman and Marris Gibbs
Burnrick, Yancey County, North Carolina

LOCATION: 3½ miles S 18° W of Cole, Yancey County, N. C.

Rehabilitation of the adit for a distance of 180 feet from the portal has been completed. Track has been lain for entire distance. An air compressor is on the location and drilling and shooting of a drift face at the 180 feet mark has begun. Direction of turnoff is about N 80° W and in pegmatitic material, composed chiefly of feldspar and quartz. An advance of about 5 feet had been made on this drift at time of visit. This project is located in the Pisgah National Forest and work had ceased at time of visit because of fire hazards. Progress on this project is satisfactory.

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

L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

November 6, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 6 1952

INTERIM REPORT

DMEA-2368 Idm-E405 (mica) WESTALL MINE

OPERATORS: W. B. Chrisawn and Harris Gibbs,
Hamrick, Yancey County, North Carolina.

LOCATION: $3\frac{1}{2}$ miles S 13° W of Celo, Yancey County,
North Carolina.

Work on this project began October 15, 1952. Rehabilitation of the portal and adit and laying of track is in progress and nearing completion. Progress on this project is satisfactory.

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

L. E. Shirley
L. E. Shirley, Mining Engineer
U. S. Bureau of Mines

October 20, 1952

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

Room 1, Post Office Building
Knoxville, Tennessee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 13 1952

October 9, 1952

Memorandum

To: Operating Committee, DMEA - Washington

From: Wm. A. Beck, Acting Executive Officer, DMEA- Region 7

Subject: DMEA-2368, Idm-E405 (mica) W.B.Chrisawn and Harris Gibbs Signed Contract.

Transmitted herewith are the Original and two copies of the above subject contract. One copy was retained by this office, one by the Applicants, and one sent to the Finance Office, Norris, Tennessee.

Wm. A. Beck

Wm. A. Beck

cae
10-13

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 15 1952

INTERIM REPORT

DMEA-2368 (Mica) WESTALL MINE

APPLICANTS: W. B. Chrisawn and Harris Gibbs, Hamrick, Yancey County, North Carolina

LOCATION: 3½ miles S 13° W of Celo, Yancey County, N. C.

A visit was made to this project for the purpose of obtaining the signatures of the applicants on the contract. The contract was reviewed and made clear to the applicants as to contents and future work to be done. Location of cross-cutting drift at 180' from the portal was made and beginning work is anticipated in the very near future.

L. A. Shirley, Mining Engineer
U. S. Bureau of Mines
Mining Branch
Minerals Technology Division
Region VII

October 7, 1952

FILE COPY
SURNAME:

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

SEP 2 2 1952

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 2, Tennessee

Subject: Docket No. DMEA-2368 - Mica
Westall Mine
W. B. Chrisawn
Yancey County, North Carolina

Dear Mr. Laurence:

Please find herewith the original and five copies of a contract covering the subject exploration project which have been signed by this office for the Government with register number and effective date as shown.

If the contract meets with your approval, present it to the Operator for his approval and signature. If any provisions are unsatisfactory to the Operator, return all copies to this office along with suggested changes for consideration.

After signing of the contract, one copy is to be given to the Operator, one copy retained for your files, one copy for the Regional Finance Officer, and the remaining copies, including the original, are to be returned to this office as soon as possible.

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee

Approved:

W. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

Enclosures 6

SAFeitler:gad 9/18/52

Copy to: Admin. Reading File
Operating Committee (2)
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk

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

September 9, 1952

Memorandum

To: Acting Administrator

From: Nonmetallic Minerals Division

Subject: Resume Docket No. DMEA-2368 - Mica
Westall Mine
3 1/2 miles S 13° W of Celo
Yancey County, North Carolina

Remarks: Bureau of Land Management issued lease 8/1/52.
Conclusions:
This Westall Mine has sufficient promise to warrant Government participation in an exploration program.

Recommendation:
Program providing for -

Rehabilitation of portal and 180 feet of adit	$800.00
Drive 60 feet of cross cut and drift @ $40.00 per ft.	2,400.00
Total	$3,200.00

be approved.

Application received 2/11/52 requesting $2,000 for bulldozing, sinking 40 feet of inclined shaft, and driving 20 feet of crosscut.
Letter to applicant 2/18/52 requesting a copy of lease and map as well as additional information.
U. S. Geological Survey memo 4/8/52.
Property has some merit but applicant has apparently lost interest. Recommendation - close the file.
Letter to applicant 5/14/52. Follow up on letter of 2/18/52 allowing until 6/18/52 for an answer.
Applicant submitted map of the lease area 6/2/52.
Letter to applicant 6/13/52 requesting copy of lease.
Staff obtained copy of lease directly from Bureau of Land Management as soon as issued 8/1/52.
U. S. Geological Survey memo 8/5/52
Recommendation - field examination.
U. S. Bureau of Mines memo 8/6/52
Recommendation - field examination.

Request field examination 8/11/52.
Field report received 8/21/52.
U. S. Geological Survey memo 8/27/52
    Recommendation - approval of Field Team program.
U. S. Bureau of Mines memo 9/3/52
    Recommendation - approval of Field Team program.
Letter to R. A. Laurence 9/4/52 checking on quality
    of mica at this mine.
Letter from Beck 9/5/52. This Westall Mine has produced ruby mica.
Contract prepared 9/9/52.

SAFeitler

Stanley A. Feitler
Nonmetallic Minerals Division

FILE COPY
SURNAME:

S Fitler

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

September 9, 1952

Memorandum

To: Acting Administrator

From: Nonmetallic Minerals Division

Subject: Resume Docket No. DMRA-2368 - Mica
Westall Mine
3 1/2 miles S 13° W of Celo
Yancey County, North Carolina

Remarks: Bureau of Land Management issued lease 8/1/52.
Conclusions:
This Westall Mine has sufficient promise to warrant Government participation in an exploration program.

Recommendation:
Program providing for -

Rehabilitation of portal and 180 feet of adit	$800.00
Drive 60 feet of cross cut and drift @ $40.00 per ft.	2,400.00
Total	$3,200.00

be approved.

Application received 2/11/52 requesting $2,000 for bulldozing, sinking 40 feet of inclined shaft, and driving 20 feet of crosscut.
Letter to applicant 2/18/52 requesting a copy of lease and map as well as additional information.
U. S. Geological Survey memo 4/8/52.
Property has some merit but applicant has apparently lost interest. Recommendation - close the file.
Letter to applicant 5/14/52. Follow up on letter of 2/18/52 allowing until 6/18/52 for an answer.
Applicant submitted map of the lease area 6/2/52.
Letter to applicant 6/13/52 requesting copy of lease.
Staff obtained copy of lease directly from Bureau of Land Management as soon as issued 8/1/52.
U. S. Geological Survey memo 8/5/52
Recommendation - field examination.
U. S. Bureau of Mines memo 8/6/52
Recommendation - field examination.

Request field examination 8/11/52.
Field report received 8/21/52.
U. S. Geological Survey memo 8/27/52
Recommendation - approval of Field Team program.
U. S. Bureau of Mines memo 9/3/52
Recommendation - approval of Field Team program.
Letter to R. A. Laurence 9/4/52 checking on quality of mica at this mine.
Letter from Beck 9/5/52. This Westall Mine has produced ruby mica.
Contract prepared 9/9/52.

SAF

Stanley A. Feitler
Nonmetallic Minerals Division

SAFeitler:gad 9/9/52

Copy to: Admin. Reading File
Docket File
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Room 13, Post Office Building
Knoxville 2, Tennessee

September 5, 1952

Mr. Ernest Wm. Ellis
Acting Chairman, Operating Committee
Defense Minerals Exploration
Administration
Department of the Interior
Washington 25, D. C.

Subject: Docket No. DMEA-2368
Westall Mine - Mica
W. B. Chrisawn
Yancey County, N.C.

Dear Mr. Ellis:

Recent inquiry concerning the quality of mica at the Westall Mine has been received. There are two Westall Mines in the Spruce Pine District. The one mentioned as a producer of green or non-ruby mica is located a few miles southwest of Spruce Pine in the vicinity of Chalk Mountain. The Old Westall Mine concerned in Docket DMEA-2368 is located about three miles south of Celo in Yancey County. The quality of this mica and color meet stock piling specifications.

Sincerely,

Wm. A. Beck, Acting
Executive Officer, DMEA
Region VII

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 8 1952

SD

FILE COPY
SURNAME:

Robertson for Houk

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

SEP 4 1952

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 2, Tennessee

Subject: Docket No. DMEA-2368 - Mica
Old Westall Mine
W. B. Chrisson
Yancey County, North Carolina

Dear Mr. Laurence:

Transmitted herewith is a list of non-ruby mica mines received recently from the U. S. Bureau of Mines. This list was compiled from records of Colonial Mica and the notification date is apparently the date the mine owners were notified that the Colonial Mica would no longer purchase their non-ruby mica.

The Westall Mine is on this list and may be the same as DMEA-2368 (Old Westall Mine). It is suggested that representative color samples be evaluated by the Spruce Pine Mica Buying Depot and this office be appraised of their findings.

Sincerely yours,

S.N. 9-4-52

Ernest Wm. Ellis (EWE)
ACTING Chairman, Operating Committee

Approved:

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

J. M. Lemmon (JML)
Member, Geological Survey

Enclosure

LGHouk:gad 9/2/52

Copy to: Admin. Reading File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk
Operating Committee (2)

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

September 3, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2368, Mica, Westall Mine,
Yancey County, North Carolina

I concur in the field team's recommendation for an exploration program in the amount of $3,200.

W. F. Dietrich

W. F. Dietrich

SD

IN REPLY REFER TO:

G-MD-CNM

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

Sp F

Memorandum August 27, 1952

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA 2368 (Mica).

To: L. W. Houk, Defense Minerals Exploration Administration.

From: P. L. Weis, U. S. Geological Survey

Applicant: W. B. Chrisawn and Harris Gibbs

Name of property: Westall Mine

Location of property: Yancey County, North Carolina

Date of field team report: August 18, 1952

Authorship of field team report: L. G. Marshall and K. H. Teague

Field team's recommendation: Grant a loan of $3,200 for exploring the pegmatite by means of a 60 foot drift.

Comments: None

Action suggested: Follow field team's recommendation.

Paul L. Weis

Paul L. Weis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
AUG 27 1952

SD

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

Room 13, Post Office Building
Knoxville 2, Tennessee

August 19, 1952

Memorandum

To: Operating Committee, DMEA-Washington

From: Field Team, DMEA-Region 7 - Knoxville, Tenn.

Subject: Field Team Examination Report on DMEA2368 (mica).

Transmitted herewith are 4 copies of Field Team Report on the above subject docket, with six copies (extra) of the maps, and supporting documents.

The Field Team concurs in the recommendations made on this application.

Wm. A. Beck

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

K. H. Teague

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

SD

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

Room 13, Post Office Building
Knoxville 2, Tennessee

August 19, 1952

Memorandum

To: Operating Committee, DMEA-Washington

From: Field Team, DMEA-Region 7 - Knoxville, Tenn.

Subject: Field Team Examination Report on DMEA2368 (mica).

Transmitted herewith are 4 copies of Field Team Report on the above subject docket, with six copies (extra) of the maps, and supporting documents.

The Field Team concurs in the recommendations made on this application.

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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2368, WESTALL MINE (mica)

W. B. Chrisawn and Harris Gibbs - Applicants
Hamrick, Yancey County, N. C.

By

L. G. Marshall, Mining Engineer
U. S. Bureau of Mines

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

August 18, 1952

Reviewed by
DMEA OPERATING COMMITTEE
8-25-52
(date)

Report of Field Examination on
DMEA-2368, WESTALL MINE (Mica)

W. B. Chrisawn and Harris Gibbs - Applicants
Hamrick, Yancey County, N. C.

The Westall mine, located 3 1/2 miles S. 13° W. of Celo, Yancey County, N. C., appears to warrant exploration assistance. The Field Team recommends that the down plunge extension of the pegmatite be explored by approximately 60 feet of cross-cut and drift, to be driven from a point approximately 180 feet from Portal No. 1 (see attached map).

The Westall mine was examined March 7, 1952 by L. G. Marshall of the Bureau of Mines and Kefton H. Teague of the U. S. Geological Survey. Approximately 3 hours were spent on the examination. Neither of the applicants were available to accompany the Field Team on the examination. The attached map shows the location of the mine in respect to Celo and North Carolina Highway No. 104. The mine is accessible at all times by jeep or 4-wheel powered vehicle. Both of the applicants appear to be competent to conduct an exploration project.

The pegmatite appears to form a pipelike body, which pitches at an angle of 35° in a direction S. 25° W. An incline from an open cut at the surface extends for 130 feet down the pitch. A tunnel, Portal No. 2, was driven to meet the foot of the incline, and a winze was sunk from the floor of this tunnel. Workings that explore a considerable area are said to extend from this winze, but their exact position is unknown, since they are now nearly filled with water. A second tunnel, Portal No. 1, was driven from a point still lower on the hillside to intersect the pegmatite.

The pegmatite is very rich in quartz, and all the mica is associated with the quartz. It is said that a large mass of quartz is exposed in the floor of the incline and that the same mass was encountered in the lower workings. Mica was found in three streaks, or veins, in the part of the incline above this mass of quartz. The "East" and "West" veins were at the top of the pegmatite, on the east and west sides of it, respectively; the "Main" vein was directly above the large mass of quartz.

No work has been done on the top of the quartz mass in the lower workings, and they appear to be the best location for future prospecting.

Most of the mica production has come from the upper part of the mine and from the quartz rich portion of the pegmatite. The mica is light ruby color, flat and of good size, but some of that exposed in the lower openings is slightly stained with hematite. Much of this stain can be removed by careful sheeting. The Field Team believes that the best opportunity for future production at this mine occurs along the possible down plunge continuations of the mica shoot.

It is proposed to drive a cross-cutting drift from Portal No. 1 at a point approximately 180 feet from the surface, as indicated on the attached map. This cross-cut and drift is estimated to be approximately 60 feet long. Estimated cost of exploration at this place are as follows:

Reconditioning Portal No. 1 and adit for a distance of 180 feet, which includes timbering portal and laying mine rail in adit - - - - - - - -	$800
Driving approximately 60 feet of cross-cut and drift @ $40/foot - - - - - - - - - - - - - - - - - - -	2,400
Estimated total cost of project	$3,200

March 7, 1952

L. G. Marshall, USBM

K. H. Teague, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2368, WESTALL MINE (mica)

W. B. Chrisawn and Harris Gibbs - Applicants
Hamrick, Yancey County, N. C.

By

L. G. Marshall, Mining Engineer
U. S. Bureau of Mines

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

August 18, 1952

Report of Field Examination on
DMEA-2368, WESTALL MINE (Mica)

W. B. Chrisawn and Harris Gibbs - Applicants
Hamrick, Yancey County, N. C.

The Westall mine, located 3 1/2 miles S. 13° W. of Celo, Yancey County, N. C., appears to warrant exploration assistance. The Field Team recommends that the down plunge extension of the pegmatite be explored by approximately 60 feet of cross-cut and drift, to be driven from a point approximately 180 feet from Portal No. 1 (see attached map).

The Westall mine was examined March 7, 1952 by L. G. Marshall of the Bureau of Mines and Kefton H. Teague of the U. S. Geological Survey. Approximately 3 hours were spent on the examination. Neither of the applicants were available to accompany the Field Team on the examination. The attached map shows the location of the mine in respect to Celo and North Carolina Highway No. 104. The mine is accessible at all times by jeep or 4-wheel powered vehicle. Both of the applicants appear to be competent to conduct an exploration project.

The pegmatite appears to form a pipelike body, which pitches at an angle of 35° in a direction S. 25° W. An incline from an open cut at the surface extends for 130 feet down the pitch. A tunnel, Portal No. 2, was driven to meet the foot of the incline, and a winze was sunk from the floor of this tunnel. Workings that explore a considerable area are said to extend from this winze, but their exact position is unknown, since they are now nearly filled with water. A second tunnel, Portal No. 1, was driven from a point still lower on the hillside to intersect the pegmatite.

The pegmatite is very rich in quartz, and all the mica is associated with the quartz. It is said that a large mass of quartz is exposed in the floor of the incline and that the same mass was encountered in the lower workings. Mica was found in three streaks, or veins, in the part of the incline above this mass of quartz. The "East" and "West" veins were at the top of the pegmatite, on the east and west sides of it, respectively; the "Main" vein was directly above the large mass of quartz.

No work has been done on the top of the quartz mass in the lower workings, and they appear to be the best location for future prospecting.

Most of the mica production has come from the upper part of the mine and from the quartz rich portion of the pegmatite. The mica is light ruby color, flat and of good size, but some of that exposed in the lower openings is slightly stained with hematite. Much of this stain can be removed by careful sheeting. The Field Team believes that the best opportunity for future production at this mine occurs along the possible down plunge continuations of the mica shoot.

It is proposed to drive a cross-cutting drift from Portal No. 1 at a point approximately 180 feet from the surface, as indicated on the attached map. This cross-cut and drift is estimated to be approximately 60 feet long. Estimated cost of exploration at this place are as follows:

Reconditioning Portal No. 1 and adit for a distance of 180 feet, which includes timbering portal and laying mine rail in adit - - - - - - - - -	$800
Driving approximately 60 feet of cross-cut and drift @ $40/foot -	2,400
Estimated total cost of project	$3,200

March 7, 1952

L. G. Marshall, USBM

K. H. Teague, USGS

Map used for
contract 9/9/5-
AF

FILE COPY
SURNAME:

S Feitler
Houk

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

AUG 11 1952

Mr. Robert A. Laurence
Executive Officer, DMEA
Field Team, Region VII
Room 13, Post Office Building
Knoxville 2, Tennessee

Subject: Docket No. DMEA-2368 - Mica
Westall Mine
W. B. Chrisman
Yancey County, North Carolina

Dear Mr. Laurence:

Reference is made to the subject application for exploration assistance at the Westall Mine in Yancey County, North Carolina.

Please arrange for a field examination at the above mine to determine whether the property has sufficient merit to warrant Government participation in an exploration program. If the results of the examination are favorable, a suitable program of exploration should be included.

We enclose copies of memoranda from the U. S. Geological Survey and the U. S. Bureau of Mines.

Sincerely yours,

8/11/52

(signed) FRANK E. JOHNSON (HB)

Chairman, Operating Committee
Defense Minerals Exploration Administration

Approved:

C. W. Johnson (HB)
Member, Bureau of Mines

O. M. Lemmon (HB)
Member, Geological Survey

SAFeitler:gad 8/6/52

Copy to: Admin. Reading File
Docket File
Operating Committee (2)
Mr. Norton, G-232 GSA Bldg.
Mr. Dietrich, 3526
Mr. Houk

Enclosures 2

FILE COPY
SURNAME:

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

AUG 11 1952

SAFeitler
Houck
Lemmon
Johnson
Johnson

Mr. W. B. Chrisman
Burnsville, North Carolina

Subject: Docket No. DMEA-2368 - Mica
Westall Mine
Yancey County, North Carolina

Dear Mr. Chrisman:

Your application is being referred to Mr. Robert A. Lawrence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 2, Tennessee, for further information.

Sincerely yours,

C. O. Mittendorf (for) 8/11/52

Acting Administrator
Defense Minerals Exploration
Administration

SAFeitler:gad 8/6/52

Copy to: Admin. Reading File
Docket File
Operating Committee (2)
Field Team, Region VII
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houck

File only in Div. A.

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

August 6, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2368, Westall Mine, (Mica)
Yancy County, North Carolina

The Geological Survey (Professional Paper 225, p. 92) tested mica from Westall Mine to be 100 percent of E-1 capacitor quality and color was classed as light cinnamon brown, generally acceptable as ruby mica. Operations in 1917, 1925 and 1928 (Geological Survey Bulletin 936-A, table 11) produced 2,182 pounds of clear sheet, 241 pounds of stained sheet and 9,833 pounds of punch mica. On the basis of these facts and additional information submitted by the applicant, a field team investigation is recommended.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
AUG 7 1952

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

August 6, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2368, Westall Mine, (Mica)
Yancy County, North Carolina

The Geological Survey (Professional Paper 225, p. 92) tested mica from Westall Mine to be 100 percent of E-1 capacitor quality and color was classed as light cinnamon brown, generally acceptable as ruby mica. Operations in 1917, 1925 and 1928 (Geological Survey Bulletin 936-A, table 11) produced 2,182 pounds of clear sheet, 241 pounds of stained sheet and 9,833 pounds of punch mica. On the basis of these facts and additional information submitted by the applicant, a field team investigation is recommended.

W. F. Dietrich

RECEIVED
AUG 13 1952
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

IN REPLY REFER TO:

G-MD-CNM

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

August 5, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2368 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: P. L. Weis, U. S. Geological Survey
Applicant: W. B. Chrissawn.
Name of property: Westall.
Location of property: Yancey County, North Carolina.
Estimated cost of project: $2,000.
Summary of applicant's proposal:

(1) Bulldoze cut 100 ft. long and 15 ft. deep.
(2) Excavate 40 feet of inclined shafts and 20 feet of crosscuts.

Sources of information on applicant's property:

(1) J. J. Page (1943) U. S. Geological Survey report (unpublished).
(2) Jahns, R. H. (1952) Pegmatites of the Blue Ridge, North Carolina and Georgia. U. S. Geological Survey. (In preparation).

Comments: This appears to be one of the more favorable possibilities in the area. It undoubtedly is worth looking at, and if it proves to be a reasonable application, the field team should arrange the terms of an exploration loan.

RECOMMENDATION: Refer to the field team, with a request that they work out exploration plans with the applicant if examination appears to justify a DMEA loan.

Paul L. Weis

Paul L. Weis

IN REPLY REFER TO:

G-MD-CNM

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

August 5, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2368 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: P. L. Weis, U. S. Geological Survey
Applicant: W. B. Chrissawn.
Name of property: Westall.
Location of property: Yancey County, North Carolina.
Estimated cost of project: $2,000.
Summary of applicant's proposal:
(1) Bulldoze cut 100 ft. long and 15 ft. deep.
(2) Excavate 40 feet of inclined shafts and 20 feet of crosscuts.
Sources of information on applicant's property:
(1) J. J. Page (1943) U. S. Geological Survey report (unpublished).
(2) Jahns, R. H. (1952) Pegmatites of the Blue Ridge, North Carolina and Georgia. U. S. Geological Survey. (In preparation).
Comments: This appears to be one of the more favorable possibilities in the area. It undoubtedly is worth looking at, and if it proves to be a reasonable application, the field team should arrange the terms of an exploration loan.
RECOMMENDATION: Refer to the field team, with a request that they work out exploration plans with the applicant if examination appears to justify a DMEA loan.

Paul L. Weis

Weis:jeh
G-8/5/52
cc:
Director's reading file 4212 USGS
Branch reading 4212 "
DMEA
Norton files G-230
Weis G-230

RECEIVED
AUG 1 8 1952
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

FILE COPY
SURNAME:

SAFeitler
Houk

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

JUN 13 1952

Chrisawn

Mr. W. B. Chrisawn
Hamrick
North Carolina

Subject: Docket No. DMEA-2368 - Mica
Westall Mine
Yancey County, North Carolina

Dear Mr. Chrisawn:

Reference is made to the above application for assistance in exploring the Westall Mine in Yancey County, North Carolina, and to the map of the property received in this office June 2, 1952.

It is necessary that you submit a copy of your lease covering the property shown on the above-mentioned map. Please comply with this requirement promptly to avoid additional delay in the processing of your application.

Sincerely yours,

6/13

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

SAFeitler:gad 6/12/52

Copy to: Admin. Reading File
Docket File
Mr. Dietrich, 3526
Mr. Norton, G-232 GSA Bldg.
Mr. Houk
Field Team, Region VII

FILE COPY
SURNAME:

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

600

MAY 14 1952

SFeitler
Whitehead

Mr. W. B. Chrissawn
Hamrick
North Carolina

Subject: Docket No. DMA-2368 - Mica
Westall Mine
Yancey County, North Carolina

Dear Mr. Chrissawn:

Reference is made to your above application for assistance in exploring the Westall Mine, Yancey County, North Carolina.

We have received no answer to our letter of February 28, 1952, requesting certain information not submitted with your application.

In regard to paragraph 2 of the above letter, if you submit a copy of a lease from the U. S. Forest Service, a subordination will not be needed. The sketch map submitted with the application is adequate to show the leased ground, but a larger scale map should show the old workings and the exploration work you propose to do.

If you are still interested in exploration assistance please let us know how you are progressing. We wish to cooperate with you in the matter of allowing ample time, but if you have not answered by June 18, 1952, we will assume that you are no longer interested and consider the docket closed.

Sincerely yours,

Signed S.H. 5-14-52

Lawrence G. Houk, Chief
Nonmetallic Minerals Division
Defense Minerals Exploration
Administration

SAFeitler:mp 5/13/52
cc: Docket File
Field Team, Region VII (2)
Adm. Reading File
Mr. Dietrich, 3526
Mr. Norton, G-232, GSA Bldg.
Mr. Houk

IN REPLY REFER TO:

G-MD-JJN

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

April 8, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2368 (Mica).

To: L. G. Houk, Non-Metallic Minerals Division, DMEA.
From: J. J. Norton, U. S. Geological Survey.
Commodity: Mica.
Applicant: W. B. Chrissana.
Name of Property: Westall.
Location of property: Near Celo, Yancey County, North Carolina.
Estimated cost of project: $2,000.
Summary of applicant's proposal:

1. Bulldozer cut 15 feet deep and 100 feet long.
2. 40-feet shaft
3. 20-feet crosscut

Sources of information on applicant's property:
Report by J. J. Page, 1943.

Comments: This property may have some merit. It has been mined from time to time for many years. During World War II mica valued at $1356 was produced.
You wrote the applicant on February 18, 1952, requesting additional data. Applicant has not replied.
I would be glad to provide more information on this property, but applicant evidently has lost interest.

RECOMMENDATION: Close the file.

J. J. Norton

J. J. Norton

DEPARTMENT ...
Bureau ...
APR 10 1952

IN REPLY REFER TO:

G-MD-DHK

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

February 20, 1952

Memorandum

To: S. A. Feitler, Defense Minerals Exploration Administration

From: Donald H. Kupfer, U. S. Geological Survey

Subject: DMEA-2368 (Westfall Mine)

We note you have asked for additional information on this property. When it has been received please let us know. Meanwhile we are holding the docket.

Donald H. Kupfer

FILE COPY
SURNAME:

SAFeitler

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

FEB 18 1952

Mr. W. B. Chrissawn
Hamrick, North Carolina

Subject: Docket No. DMEA-2368 - Mica
Westall Mine
Yancey County, North Carolina

Dear Mr. Chrissawn:

Your above application has been received by this Division of the Defense Minerals Exploration Administration for review.

In your answer to Questions No. 7 and 10 of Form MF-103, you mention attached leases and a map. As these were apparently not enclosed, please send four copies of the lease and the map. Whatever agency of the Government owns and is leasing the mineral rights to you should be asked to execute four copies of Form MF-202. We enclose five copies, so you will have one for your file.

The exploration work you propose to do should be shown on a map with the old workings. The map should show the relationship of the proposed exploration to the old workings and your explanation (Question 22) should make clear your reasons for believing that this work will result in the discovery of new ore.

You should also state what you know of the past history of the mine, its production, when last operated, quality of the mica, etc.

Please forward the above information and material without delay so your application can be processed promptly.

Sincerely yours,

Signed

Lawrence G. Houk, Acting Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

Enclsoures 5

SAFeitler:gad
2/15/52

Copy to: Admin. Reading File
Docket File
Mr. Norton, G-228, GSA Bldg.
Mr. Dietrich, 3526
Mr. Houk

BL

EXPLORATION

Subject: DMEA-2368
Re: Exploration Loan
Old Westall Mine
February 11, 1952

Mr. W. B. Chrissawn
Hamrick, North Carolina

My dear Mr. Chrissawn:

This will acknowledge receipt of your application dated February 4, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2368 and referred to the Non-Metallics Division.

Kindly refer to DMEA-2368 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Acting Administrative Officer

7862

OFFICE OF THE ADMINISTRATOR

DMEA-2368

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

~~WASHINGTON 25, D.C.~~

Room 13, Post Office Building
Knoxville, Tennessee

February 8, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee

From: Executive Officer, DMEA Region VII

Subject: W. B. Chrissawn, Hamrick, N.C; MF-103 (mica)

Enclosed are 3 copies of form MF-103 just received from Mr. W. B. Chrissawn of Hamrick, N.C. We are keeping the fourth copy here in accordance with recent instructions.

The Westall Mine was described in a Geological Survey map and report released on Sept. 4, 1943, through Interior Press notice 25893.

Robert A. Laurence

Robert A. Laurence

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1952

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMEA-2368X

Date received 2-11-52

Participation

W. B. Chriesawn

Hamrick, North Carolina

Name and address of applicant

Date February 4, 1952

Hamrick, N. C.

FILL IN THIS BLOCK

Date of application February 4, 1952

Estimated cost $2000.00

Mineral or metal Mica

Percentage of Government participation $1800.00

Location of mine South Toe Township, Yancey County, North Carolina.

Map attached

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

FEB 11 1952

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

THE PROPERTY

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

    NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

Chesapeake & Ohio
(Name of company)

By [illegible]
(Signature of authorized official)

Feb 15 1982
(Date)

(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Information required by Form MF-103 being filed by W. B. Chriscawn.

1. Partnership.

2. W. B. Chriscawn, Hamrick, N. C. Harris Gibbs, Celo, N. C.

3. No

4. W. B. Chriscawn has had 30 years experience in mining Mica. Has had 19 years experience in contracting timber from U. S. Government.

5. Lessee

6. No answer required

7. Attached Lease being obtained from U. S. Government.

8. Farm Land 103½ acres; value $20,000.00. Personal property, livestock, cash on hand, etc. $2500.00.

9. $200.00. This is sufficient.

10. (a) U. S. Government land being leases. Land extends to N. C. State Highway.

(b) Map attached prepared by U. S. Forest Service Office.

11. Old Westall Mine

12. 23 miles North of Marion, N. C., over asphalt highway. 9 miles South of Bowditch, N. C., where spur track of Black Mountain Railway is located and can be reached over asphalt highway.

13. Abundance of water from Colberts Creek, tributary of South Toe River. Gasoline driven equipment. 75 HP compressor and hoist.

14. Steel track 200 feet already on property,

15. Shipped from mine by truck to Government processing center when and where located. Probably Spruce Pine, N. C., or Celo, N. C.

16. Old mine, opened at least 70 years prior to this date. Good producer when operated.

17. Not in production.

18. Answer not required. Not operating.

19. None

20. Mica

21. 40 feet of inclined shaft; 20 feet of cross cut at head of old tunnel, 30 days time required for both. 100 feet of cut 15 feet deep with bulldozer, time required 4 days.

22. Mine has heretofore yielded abundantly.

23. (a) 2 laborers at 85¢ per hour
1 millwright @ $1.25 per hour
1 hoist operator @ $1.00 per hour

(b) 1 superintendent at $60.00 per week.
total of (a) and (b) for 30 day period, ...$872.00.

(c) None

(d) Shop shed $50.00

(e) No purchase

(f) Cost of rental 30 days :

1. Compressor	$150.00
2. Rock hammer	40.00
3. Double drum gas drive hoist	150.00
4. One air driven water pump	40.00
5. 300 feet hoist cable	50.00
6. 200 feet pipe line	48.00
7. 100 feet drill steel, 6 bits	20.00
8. 500 feet air hose, couplings, rope clamps, hand tools, forge and tools.	250.00

(g) None

(h) Dynamite, caps, battery	45.00
(i) Gasoline, oil, grease	100.00
Hauling, truck, insurance	350.00

24. Thirty days should be sufficient to start producing and marketing at a cost not exceeding $2000.00.

The undersigned, H. B. Chrissawn, the person executing this Certificate, hereby certifies that the information contained in this Form and accompanying papers is correct and complete to the best of his knowledge and belief.

Applicant

February 4, 1952

Form 4-1100
(May, 1949)

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Land Management
Washington 25, D. C.

Copy

Serial No. BLM-A 021166

North Carolina
(State)

MICA

MINERAL LEASE - ACQUIRED LANDS

Pisgah-Croatan National Forest

This mineral lease entered into in quintuplicate this 1st day of August, 1952, by and between the United States of America, the lessor, through the Bureau of Land Management, and W. B. Chrisown, the lessee, of Hamrick, North Carolina, pursuant to Section 402 of the President's Reorganization Plan No. 3 of 1946, and regulations thereunder (43 CFR 200.31 et seq.); witnesseth:

SECTION 1. Rights of Lessee. In consideration of the rents and royalties to be paid and conditions and covenants to be observed as herein set forth the lessor grants to the lessee, subject to all privileges and uses heretofore duly authorized and prior valid claims, for a period of 10 years from the date hereof, the exclusive right to mine, remove and dispose of all the mica and associated minerals in, upon, or under the following-described tracts

"X" Beginning at Corner No. 5 of U. S. Forest Service Tract No. 116, Mt. Mitchell District of Pisgah National Forest, Yancey County, North Carolina, thence N. 10 chains to a point; thence E. 3 chains to the S. W. corner of mine plot; thence East 6 chains to corner No. 2 of Plot; thence N. 8° W., 13 chains to Corner 3 of Plot; thence West 3 chains to Corner 4 of Plot; thence S. 8° W., 13 chains to Beginning corner of Plot.

containing 5.85 acres, more or less, together with the right to construct and maintain thereupon such structures and other facilities as may be necessary for the mining, preparation and removal of said minerals.

SECTION 2. In consideration of the foregoing, the lessee agrees:

(a) Production. To begin ~~production~~ operations within 12 months and to continue production thereafter unless operations are interrupted by strikes, the elements or casualties not attributable to the lessee. The lessor may grant reasonable extensions of time for the commencement of production, and may authorize suspensions of production for reasonable periods of time in the interest of conservation or when the lease cannot be successfully operated at a profit, or for other reasons when such action does not adversely affect the interest of the United States.

(b) Rental. To pay to the lessor annually in advance, beginning with the date of this lease, rental of $2.00 for each acre or fraction thereof for each lease year until production commences, the rental payment for the year in which production commences to be credited on royalties that accrue during that lease year.

(c) Royalty. To pay the lessor within 30 days after the end of each period prescribed in subsection (f) of this section a royalty of 8 per cent of the gross value of the minerals mined hereunder at the point of shipment to market, such point of shipment to be the mine or preparation plant, as the case may be. The lessee agrees that the Secretary of the Interior, for the purpose of determining the royalties due hereunder, may establish reasonable minimum values for the minerals mined, due consideration being given to the highest price paid for a part or a majority of the production of minerals of like quality produced from the same general area, the price received by the lessee, posted prices, and other relevant matters.

(d) Minimum Royalty. If there is no production or if royalties under subsection (c) of this section total less than $20.00 in any lease year, to pay the lessor a sum equal to the difference between such royalties and $20.00, such minimum royalty obligation to become effective the first lease year commencing after production begins, and to be payable within 30 days following the end of the lease year for which due. Lessor may, in its discretion, suspend the minimum royalty requirement when production is interrupted or suspended as provided in subsection (a).

(e) Bond. To furnish and maintain a bond in the sum of $1,000.00 conditioned upon compliance with the terms and conditions of this lease.

(f) Statement. To furnish for each month or such other period as may be designated by the District Mining Supervisor of the Geological Survey, statements in detail, in such form as may be

Rm. 3227, General Services Administration Building, Washington 25, D. C.

prescribed by him, 1/ of the amount and value of output from the leasehold during such period for use in determining royalties, such statements to be furnished within 30 days from the close of the month or period so designated. Falsification of such statements shall be grounds for cancellation of the lease. 2/

(g) Inspection. To permit at all reasonable times: (1) inspection by any duly authorized officer of the supervising agencies, of the leased premises and all surface and underground improvements, works, machinery, equipment, and all books and records pertaining to operations and surveys or investigations under this lease; and (2) the lessor to make copies of and extracts from any or all books and records pertaining to operations under this lease.

(h) Maps - Reports. To furnish in duplicate to the District Mining Supervisor, at such times as he may require, a plat in the manner and form prescribed by him 1/ showing prospecting and development work and improvements on the lease land and other related information, with a report as to all buildings, structures, and other works or equipment, situated elsewhere and owned or operated in conjunction with, or as a part of the operations conducted hereunder.

(i) Operations. To conduct operations in compliance with all Federal and State laws and the operating regulations of the Department of the Interior (30 CFR, Chap. II, Part 231), which are made a part hereof, and to exercise reasonable diligence, skill and care in the operation of the property, and to carry on all operations in accordance with approved methods and practices, having due regard for the prevention of damage to mineral deposits, water horizons and property, injury to life and health, and economic waste.

(j) Taxes. To pay when due all taxes lawfully assessed and levied under the laws of the State or the United States upon improvements, output of mines, and other rights, property and assets of the lessee.

(k) Deliver Premises. To deliver up to the lessor in good order and condition and subject to the provisions of Section 9 hereof on the termination of this lease as a result of forfeiture thereof the lands covered thereby, including all underground timbering and such other supports and structures as are necessary for the preservation of the mine.

(l) Assignment. Not to assign this lease, or any interest therein, whether by direct assignment, operating agreement, working or royalty interest, or otherwise, nor sublet any portion of the leased premises, except with the approval in writing of the lessor. All such assignments or subleases must be submitted in triplicate within 90 days from the date of execution and must contain all of the terms and conditions agreed upon by the parties thereto. No overriding royalties or payments out of production shall be created which would exceed 1/2 the royalties payable under this lease to the lessor. An assignment of all or part of the record title to a portion of the acreage in the lease shall separate the lease into separate leaseholds and the terms hereof shall apply separately to the segregated portions. Advance annual rental payments if previously terminated shall be resumed as to an undeveloped segregated portion on the next anniversary date of the lease, the minimum royalty payment herein specified shall apply separately to the segregated portions and the time allowed within which to commence operations on an undeveloped segregated portion shall be such reasonable period as shall be prescribed by the lessor at the time the assignment is approved.

(m) Non-discrimination. Not to discriminate against any employee or applicant for employment because of race, creed, color, or national origin, and to require an identical provision to be included in all subcontracts.

(n) Payments. To make all payments to the lessor under this section as directed, such payments to be made to the order of the Treasurer of the United States.

SECTION 3. In further consideration of the foregoing, the lessee also agrees:

(a) Protection of Property. To conduct all operations authorized by this lease with due regard for good land management; not to cut or destroy timber without first obtaining permission from the authorized representative of the Secretary of Agriculture, and to pay for all such timber cut or destroyed at rates prescribed by such representative; to avoid unnecessary damage to improvements, timber, crops, or other cover; whenever practicable, to control soil erosion resulting from the operation; to prevent pollution of soil and water resources; unless otherwise authorized by the representative of the Secretary of Agriculture, not to carry on operations, make excavations, construct tunnels, drill, or otherwise disturb the surface of the leased land within 200 feet of any building standing on the leased land; whenever required in writing by the authorized representative of the Secretary of Agriculture, to fence all sump holes and other excavations made by lessee.

(b) Forest, Brush and Grass Fire Precautions. To do all in his power to prevent and suppress forest, brush and grass fires on the leased land and in its vicinity, and to require his employees, contractors, subcontractors, and employees of contractors or subcontractors to do likewise. Unless prevented by circumstances over which he has no control, the lessee shall place his employees, contractors, subcontractors, and employees of contractors and subcontractors employed on the leased land at the disposal of any authorized officer of the Department of Agriculture

---

1/ All forms herein required are subject to approval by the Bureau of the Budget in accordance with the Federal Reports Act of 1942.

2/ 18 U.S.C. sec. 1001 makes it a crime for any person knowingly and wilfully to submit or cause to be submitted to any agency of the United States any false or fraudulent statement as to any matter within its jurisdiction.

for the purpose of fighting forest, brush, or grass fires, with the understanding that payment for such services shall be made at rates to be determined by the authorized representative of the Secretary of Agriculture, which rates shall not be less than the current rates of pay prevailing in the vicinity for services of a similar character; except that if the lessee, his employees, contractors, subcontractors, or employees of contractors or subcontractors caused or could have prevented the origin or spread of said fire or fires, no payment shall be made for services so rendered.

During periods of serious fire danger to forest, brush, or grass, as may be specified by the authorized representative of the Secretary of Agriculture, the lessee shall prohibit smoking and the building of camp and lunch fires by his employees, contractors, subcontractors, and employees of contractors or subcontractors, within the leased area except at established camps, and shall enforce this prohibition by all means within his power. However, the authorized representative of the Secretary of Agriculture may designate safe places where, after all inflammable material has been cleared away, camp fires may be built for the purpose of heating lunches and where, at the option of the lessee, smoking may be permitted.

The lessee shall not burn rubbish, trash, or other inflammable material except with the consent of the authorized representative of the Secretary of Agriculture and shall not use explosives in such manner as to scatter inflammable materials on the surface of the land during the forest, brush or grass fire season, except as authorized to do so or on areas approved by such representative.

The lessee shall build or construct such fire lines or do such clearing on the leased land as the authorized representative of the Secretary of Agriculture decides is necessary for forest, brush, and grass fire prevention and shall maintain such fire tools at his headquarters on the leased land as are deemed necessary by such representative.

(c) Damage to Property. To pay the lessor or its tenant, as the case may be, for any and all damage to or destruction of property caused by the lessee's operations hereunder; to save and hold the lessor or its tenant harmless from all damage or claims for damage to persons or property resulting from the lessee's operations under this lease; and where the surface of the leased land is owned by other than the lessor, to pay such owner, or his tenant, as the case may be, for damage or injury to livestock, crops, trees, pipe lines, buildings, and other improvements on the leased land.

(d) Restoration of Surface of Land. Upon any partial or total relinquishment, cancellation or expiration of this lease, as to that part of the leased land as to which the lessee's rights have terminated and to the extent deemed necessary by the authorized representative of the Secretary of Agriculture, to fill all sump holes, ditches and other excavations, remove or cover all debris, and, so far as reasonably possible, restore the surface of the leased land to its former condition, including the removal of structures as and if required.

(e) Department of Agriculture Regulations. To comply with all the rules and regulations of the Secretary of Agriculture governing the national forests or other lands under his jurisdiction which are embraced in this lease.

(f) Special Stipulations.

During periods of inactivity, the lessee shall be required to divert the water from roads and skid trails or pile brush in them to prevent undue erosion, or take other adequate erosion control measures as required by the Forest Officer in charge.

(g) Appropriate Agency Official. To address all matters relating to this section to Forest Supervisor, Pisgah-Croatan Nat. Forest at Asheville, North Carolina, who is the authorized representative of the Secretary of Agriculture, or to such other representative as may, from time to time, be designated provided that such designation shall be in writing and be delivered to the lessee or his agent as provided by Section 4 hereof.

SECTION 4. Lessee-Agent. Prior to the beginning of operations the lessee shall appoint and maintain at all times during the term of this lease a local agent upon whom may be served written orders or notices respecting matters contained in this lease, and shall inform the authorized representative of the Secretary of Agriculture, and the District Mining Supervisor of the United States Geological Survey, in writing, of the name and address of such agent. If a substitute agent is appointed, the lessee shall immediately so inform the said representatives.

SECTION 5. Renewal of Lease. If, upon the expiration of this lease, the issuance for an ensuing period of a lease of similar character is determined to be in the public interest, and all of the terms hereof have been satisfactorily complied with, and the lessee is then qualified, he shall be accorded a preference in the issuance of said ensuing lease upon such reasonable terms and considerations as may be prescribed by the Secretary of the Interior, unless otherwise provided by law. The exercise of such preference right shall be in accordance with regulations prescribed by the Secretary of the Interior.

SECTION 6. The lessor expressly reserves:

(a) Rights Reserved. The right to permit for joint or several use easements or rights-of-way, including easements in tunnels upon, through, or in the land leased, occupied, or used as may be necessary or appropriate to the working of the same or other lands, and the preparation and shipment of the products thereof by or under authority of the Government, its lessees or permittees, and for other public purposes.

(b) Monopoly and Fair Prices. Full power and authority to promulgate and enforce all orders necessary to insure the sale of the production of the leased lands to the United States and to the public at reasonable prices, to protect the interest of the United States, to prevent monopoly, and to safeguard the public welfare.

(c) Fissionable materials. All fissionable source materials, together with the right, at any and all times, to enter upon the lands and prospect for, mine and remove such materials, pursuant to Executive Order No. 9908 (12 F. R. 8223).

(d) Waiver of Conditions. The right to waive any breach of the covenants and conditions contained herein, but any such waiver shall extend only to the particular breach so waived and shall not limit the rights of the lessor with respect to any future breach; nor shall the waiver of a particular cause of forfeiture prevent cancellation of this lease for any other cause, or for the same cause occurring at another time.

SECTION 7. It is mutually agreed:

(a) Strip Mining. That this lease does not authorize mining or removal of minerals by stripping or contour mining unless otherwise specifically authorized herein.

(b) Reduction or Smelting of Ores. That the reduction or smelting of ores on the leased land is expressly prohibited in the absence of an agreement between the lessee and the designated representative of the Secretary of Agriculture authorizing such use of the surface of the land and providing for the necessary protection of life and property. Such agreement shall contain all of the terms and conditions under which the reduction or smelting of ores may be carried on and any violation of that agreement shall be considered a violation of the terms of this lease for the purpose of Section 9.

(c) Uses and Disposition of Surface. That the leased land shall be subject at all times to any other lawful uses or sale by the United States, its lessees, permittees, licensees, and assigns; provided that such uses or sale shall not prevent, obstruct, or unduly interfere with any privilege granted under this lease.

(d) Granting Leases for Other Minerals. That the granting of this lease will not preclude the issuance of other leases of the same land for the mining of other minerals with suitable stipulations as to joint operations, in order that full development of the mineral resources may be obtained.

SECTION 8. Relinquishment of Lease. Upon payment of all rentals, royalties and other debts due and payable to the lessor and upon payment of all wages or moneys due and payable to the workmen employed by the lessee, the lessee may, upon a satisfactory showing that the public interest will not be impaired, surrender all or any subdivision or subdivisions of the area included in the lease. In no case will the lease be terminated in whole or in part until and unless the lessee shall have made provision for the preservation of any mines and mineral deposits or productive works or permanent improvements on the lands covered thereby and complied with Section 3(d) hereof. A surrender must be by a relinquishment filed, in triplicate, with the Director, Bureau of Land Management. A relinquishment upon its approval shall take effect as of the date it is filed.

SECTION 9. Removal of Equipment, etc., on Termination of Lease. On termination of this lease, by surrender, forfeiture, or otherwise the lessee shall have the privilege at any time within a period of 90 days thereafter of removing from the premises all machinery, equipment, tools and materials, other than underground timbering placed by the lessee in or on the leased lands, which are not necessary for the preservation of the mine. Any materials, tools, appliances, machinery, structures and equipment, subject to removal as above provided, which are allowed to remain on the leased land shall become the property of the lessor on expiration of the 90-day period or such extension thereof as may be granted by the lessor, but the lessee shall remove any or all of such property when so directed by the lessor.

SECTION 10. Proceedings in case of default. If the lessee does not comply with the applicable regulations made a part hereof or the terms of this lease and such default continues for a period of 30 days after service of written notice thereof by the lessor, the lease may be canceled by the Director, Bureau of Land Management. However, if production has commenced on the

lease, it may be canceled only by appropriate proceedings in a court of competent jurisdiction; but this provision does not apply to leases issued for a period of five years or less which may be canceled in the manner stated above. Furthermore, if the lessee fails to take prompt and necessary steps to prevent loss or damage to the mine, property, or premises, or danger to the employees, the lessor may enter on the premises and take such measures as may be deemed necessary to prevent such loss or damage or to correct the dangerous or unsafe condition of the mine or works thereof, which shall be at the expense of the lessee, but the lessee shall not be held responsible for delays or casualties occasioned by causes beyond the lessee's control.

SECTION 11. Heirs and successors-in-interest. It is further agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors, or assigns of the respective parties hereto.

SECTION 12. Unlawful Interests. It is also further agreed that no Member of, or Delegate to Congress, or Resident Commissioner, after his election or appointment, or either before or after he has qualified, and during his continuance in office, and that no officer, agent, or employee of the Department of the Interior or of the Department of Agriculture shall be admitted to any share or part of this lease, or derive any benefit that may arise therefrom, and the provisions of Section 3741 of the Revised Statutes, as amended, and 18 U.S.C. 431, 432, and 433, relating to contracts, enter into and form a part of this lease so far as the same may be applicable.

THE UNITED STATES OF AMERICA

By (Sgd.) William Zimmerman, Jr.
~~Chief, Division of Adjudication, for the~~
Acting Director, Bureau of Land Management.

WITNESSES TO SIGNATURE OF LESSEE

.....

.....

.....

.....
Lessee.

(The reporting requirements contained in this lease have been approved by the Bureau of the Budget in accordance with the Federal Reports Act of 1942. If this lease is executed by a corporation, it must bear the corporate seal.)

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMEA-2368

Date received 2-11-52

Participation

W. B. Chrissawn

Hamrick, North Carolina

Name and address of applicant

Date February 4, 1952

Hamrick, N. C.

FILL IN THIS BLOCK

Date of application February 4, 1952

Estimated cost $2000.00

Mineral or metal Mica

Percentage of Government participation $1800.00

Location of mine South Toe Township, Yancey County, North Carolina.

Map attached

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

Department of the Interior
Defense Minerals Administration
FEB 11 1952

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

    NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

Clear Journey Gold Co. (Name of company)

By [illegible] (Signature of authorized official)

Feb 5 — 1952 (Date)

(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Information required by Form MF-103 being filed by W. B. Chrissawn.

1. Partnership.

2. W. B. Chrissawn, Hamrick, N. C. Harris Gibbs, Celo, N. C.

3. No

4. W. B. Chrissawn has had 30 years experience in mining Mica. Has had 19 years experience in contracting timber from U. S. Government.

5. Lessee

6. No answer required

7. Attached Lease being obtained from U. S. Government.

8. Farm land 103½ acres; value $20,000.00. Personal property, livestock, cash on hand, etc. $2500.00.

9. $200.00. This is sufficient.

10. (a) U. S. Government land being leases. Land extends to N. C. State Highway.

(b) Map attached prepared by U. S. Forest Service Office.

11. Old Westall Mine

12. 23 miles North of Marion, N. C., over asphalt highway. 9 miles South of Bowditch, N. C., where spur track of Black Mountain Railway is located and can be reached over asphalt highway.

13. Abundance of water from Colberts Creek, tributary of South Toe River. Gasoline driven equipment. 75 HP compressor and hoist.

14. Steel track 200 feet already on property,

15. Shipped from mine by truck to Government processing center when and where located. Probably Spruce Pine, N. C., or Celo, N. C.

16. Old mine, opened at least 70 years prior to this date. Good producer when operated.

17. Not in production.

18. Answer not required. Not operating.

19. None

20. Mica

21. 40 feet of inclined shaft; 20 feet of cross cut at head of old tunnel, 30 days time required for both. 100 feet of cut 15 feet deep with bulldozer, time required 4 days.

22. Mine has heretofore yielded abundantly.

23. (a) 2 laborers at 85¢ per hour
1 millwright @ $1.25 per hour
1 hoist operator @ $1.00 per hour

(b) 1 superintendent at $60.00 per week.
total of (a) and (b) for 30 day period, ...$872.00.

(c) None

(d) Shop shead $50.00

(e) No purchase

(f) Cost of rental 30 days :

1. Comprssor	$150.00
2. Jack hammer	40.00
3. Double drum gas drive hoist	150.00
4. One air driven water pump	40.00
5. 300 feet hoist cable	50.00
6. 200 feet pipe line	48.00
7. 100 feet drill steel, 6 bits	20.00
8. 200 feet air hose, couplings, rope clamps, hand tools, forge and tools.	250.00

(g) None

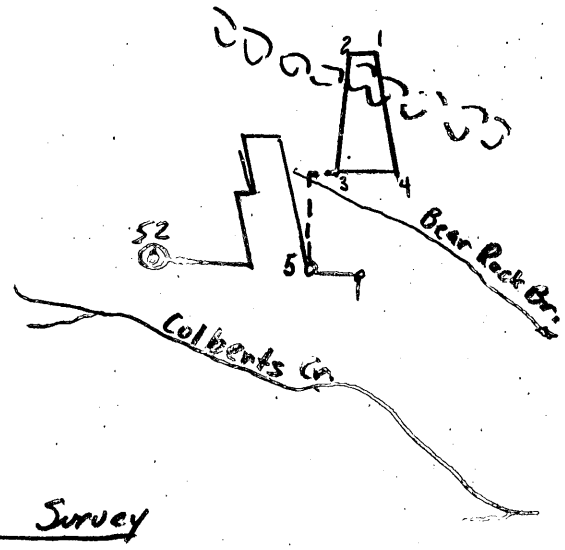
(h) Dynamite, caps, battery	45.00
(i) Gasoline, oil, grease	100.00
Hauling, truck, insurance	350.00

24. Thirty days should be sufficient to start producing and marketing at a cost not exceeding $2000.00.

The undersigned, W. B. Chrissawn, the person executing this Certificate, hereby certifies that the information contained in this Form and accompanying papers is correct and complete to the best of his knowledge and belief.

_____
Applicant

February 4, 1952



Mine Survey

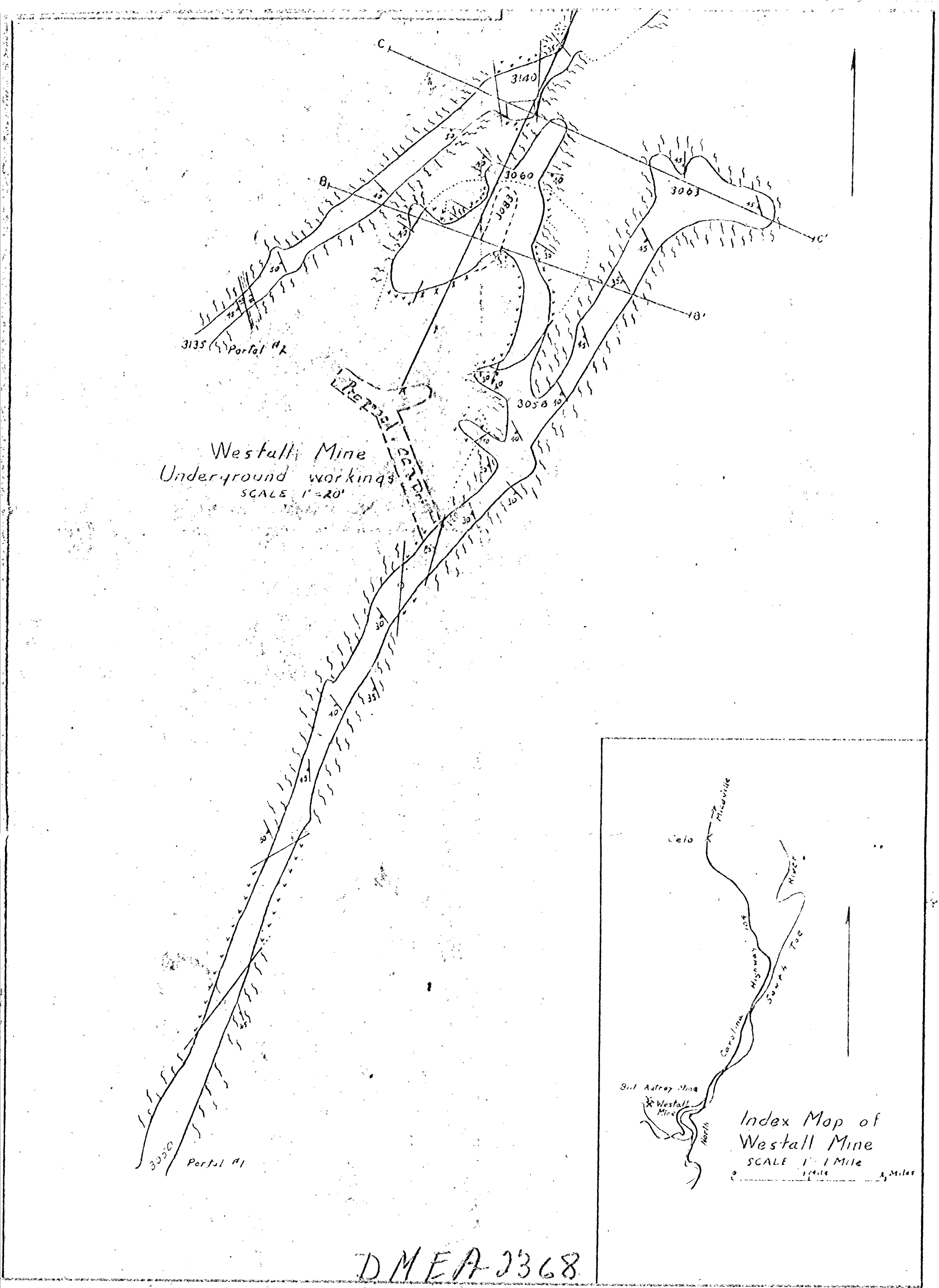
Cor. 1-2	W	3.00	chains
2-3	S 8W	13.00	chains
3-4	E	6.00	chains
4-1	N 8W	13.00	chains

Tie Line Survey

Beginning at Corner #3, thence W. 5 chains to a point in U.S. line, thence S 10 chains to corner #5 of Penland Heirs Tract #116

5.85 acres

Scale 4" = 1 mile


Westall Mine
Underground workings
SCALE 1" = 20'
Portal #2
Portal #1
3140
3060
3063
3058
3135
3050
Index Map of
Westall Mine
SCALE 1" = 1 Mile
Westall Mine
Carolina
Highway 104
South Fork
North

DMEA-2368