600

FEB 17 1955

Mr. Charles Hyatt

Burnsville, North Carolina

Re: Docket No. DMEA-3443 - Mica
Charles Hyatt
Green Mountain Mine
Yancey County, North Carolina

Dear Mr. Hyatt:

On October 21, 1954, we wrote you a letter requesting that you furnish this office with six copies of the executed Owner's Consent to Lien or if these are not obtainable to forward a written refusal with reasons by the owners.

Again on January 5, 1955, we wrote you a letter advising that if the needed data have not been received by February 10, 1955, we would then remove the application from the active file and consider the matter closed.

To date we have not had answers to above referenced letters and we assume that you no longer desire to proceed with the application. Accordingly we are removing the application from the active file and considering the matter closed.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

WCAnderson:gad 2/17/55
Copy to: Admr. R. File
Docket
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

February 17, 1955

Memorandum

To: The File

From: Walter C. Anderson, Nonmetallic Minerals Division

Subject: Evaluation of Field Team report

Docket No. DHEA-3443 - Mica
Charles Hyatt
Green Mountain Mine
Yancey County, North Carolina

Mica - Ruby to rum colored, uniformly distributed throughout deposit.
Size - Average books 3 by 5 inches, and up to 4 by 6 inches.
Quality - Hard, flat and free splitting - Small percentage contains light speckled mineral stains. "A" structure is common. Chief defect-ruling.

Pegmatite - A pegmatite 860 feet long strikes N 15° E across three properties known as the Green Mountain Group of Mines. It is in the form of a series of connecting pods and stringers. Maximum thickness 3½ feet and pinching between the pods to barely traceable stringers. Pegmatite is parallel to strike of foliation of country rock, dipping 57° east, crosscutting the foliation at a very gentle angle.

Old workings - No mining has been done in the area under consideration. Whether the Green Mountain Mine mica quality as described above extends into this area is not known.

Method of exploring - In 2 stages - Stage I to consist of trenching and testpitting to determine justification for Stage II, which will consist of 50 feet of incline and 75 feet of drift, 11 in pegmatite. This proposal by Field Team is similar to applicant's proposal. This office would have no alternative plan.

Economics - If the geological premise advanced by the Field Team is correct, the value of mica discovery will justify the cost of proposed exploration work. Work under Stage II will not be undertaken unless justified by work under Stage I, costing only $200.00.

Recommendation - The Field Team recommends contract, premised on continuity of pegmatite along strike and down-dip, with uniform distribution of good quality mica throughout. The Geological Survey and Bureau of Mines concur.

The Nonmetallic Minerals Division has doubts concerning the geological premise advanced by the Field Team and is inclined to deny the application. However, the applicant has not responded to requests dated October 12, 1954 and January 5, 1955 that he furnish an Owner's Consent to Lien or a writter refusal with reasons by the Owner and is being notified that the application is being withdrawn from the active file and the matter considered closed.

WCAnderson:pk 8/12/55
Copy to: Admr. R. File
Mr. Houk
Mr. Anderson

600

JAN - 5 1955

Mr. Charles Hyatt

Burnsville, North Carolina

Re: Docket No. DMEA-3443 - Mica
Charles Hyatt
Green Mountain Mine
Yancey County, North Carolina

Dear Mr. Hyatt:

On October 21, 1954, we wrote you a letter requesting that you furnish this office with six copies of the executed Owner's Consent to Lien or if these are not obtainable to forward a written refusal with reasons by the owners. To date we have not had an answer to our letter and we assume that you no longer desire to proceed with the application.

We wish to cooperate with you in the matter of allowing ample time but if the needed data have not been received by February 10, 1955, we will then remove the application from the active file and consider the matter closed.

Sincerely yours,

O. O. Mittendorf

Administrator

WCAnderson:gad 1/5/55
Copy to: Admr. R. File
Docket
Field Team, Region VII
Mr. Kiilsgaard, 5222
Mr. Dietrich, 3061
Mr. Houk

OCT 21 1954

Mr. Charles Hyatt

Burnsville, North Carolina

Re: Docket No. DMEA-3443 - Mica
Green Mountain Mine
Yancey County, North Carolina

Dear Mr. Hyatt:

Reference is made to our letter, dated August 27, 1954, requesting six copies of the Owner's Consent to Lien.

Instead of securing an Owner's Consent to Lien as requested, you have furnished financial statements and state you are willing to sign a guarantee. Please be advised that in case of a lessee, an Owner's Consent to Lien is necessary to protect the Government's interest. Satisfactory financial position and guarantee are acceptable only when supported by evidence that a diligent effort to secure an Owner's Consent to Lien has been made, and a written refusal with reasons has been submitted by the owners.

Processing of your application will be held in abeyance until either the six copies of the executed Owner's Consent to Lien are forwarded or a written refusal is received.

Sincerely yours,

C. O. Mittendorf

Administrator

WCAnderson:gad 10/21/54
Copy to: Admr. R. File
Docket
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5223
Mr. Houk

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 18 1954

October 15, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3443 (mica)

Applicant: Charles Hyatt

Name and Location of Property: Green Mountain Mine
Yancey County, North Carolina

Date of Field Team Report: September 15, 1954

Date Rec'd. by Ceramic and Fertilizer Mtls. Br.: September 22, 1954

Field Team Recommendation:

1. Exploration assistance.

Comments:

1. Proposed exploration is consistent with good engineering practice and estimated costs are in line with those of other DMEA projects in the area.

2. Planned exploration is divided into two stages:

Stage I - $200.00
Stage II - $4,925.00

Recommendation:

I concur in the field team's recommendation to approve a two-stage exploration project in the amount of $5,125.

Signed

W. F. Dietrich

IN REPLY REFER TO:

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

SEP 27 1954

September 24, 1954

Re: DMEA-3443
Charles Kyatt
(Green Mt. Mine)
Yancey Co., N. C.
$5,185 - Mica

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team report

The Field Team recommends exploration assistance be granted on the southern end of the Green Mtn. mine.

The proposed two-stage project appears to be justified. The Field Team should check the results of Stage I before the applicant continues with Stage II.

I recommend their proposed project be approved.

E. L. Newcomb

ELNewcomb:hlm
G-9/24/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061

September 15, 1954

Memorandum

To: Operating Committee, DMEA - Washington

From: Field Team, DMEA - Region VII - Knoxville, Tennessee

Subject: Field Examination Reports -- Old Green Mountain Mine
DMEA-3443, Y ates Bennett & Grady Long (mica)
DMEA-3443, Charles Hyatt. Green Mountain Mine (mica)

Enclosed are four copies of each of the subject reports, and six extra maps of each.

These two properties are on the same pegmatite, but are separated by another property not involved in either application, as shown on the maps.

Indications of probability of discovering additional mica deposits at both places are sufficiently good to justify exploratory work, and we recommend approval of contracts as outlined in the reports.

Financial statement of Charles Hyatt is attached to original of the DMEA-3443 report.

Robert A. Laurence
EXECUTIVE OFFICER
DMEA, REGION VII

Reviewed by
DMEA OPERATING COMMITTEE
9/24/54
(date)

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

RAL/mm
cc:
Beck-Lynch-Files

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

On

DMEA-3443, GREEN MOUNTAIN MINE
(Mica)
Yancey County, N. C.

By

Kafton H. Teague and D. H. Amos, Geologists
U. S. Geological Survey

and

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

September 15, 1954

FIELD EXAMINATION REPORT
On
DMEA-3443, GREEN MOUNTAIN MINE
(mica)

Applicant: Charles Hyatt, Burnsville, North Carolina

This application is on the possible southwestward extension of the pegmatite zone currently being mined by the applicant. No mining has been done in the area covered by the application, although it connects with a producing area. Limited trenching has exposed pegmatite, thus exploration in the area offers possibilities for success. Exploration assistance is recommended.

The deposit was examined on September 10, 1954. Mr. Charles Hyatt accompanied the examiners on the inspection which required one hour.

The location, extent of workings, geology, and history of operation of the Green Mountain mine is covered in the examination report on the Old Green Mountain Mine (DMEA-3442) and will not be repeated here.

The applicant, Mr. Hyatt, is currently operating the Green Mountain Mine. He is a competent operator. Area covered by this application occurs southwest of that portion of the deposit now being mined (see attached map). Area included in the application is adequate for the proposed work. No Owner's Consent to Lien has been obtained by the applicant, however, a financial statement supplied by him is attached to this report. He is willing to sign guarantee.

No mining has been done in the area under consideration. Several shallow trenches southwest of the area being mined have shown that stringers and pods of pegmatite extend for at least another 50 feet. Their mica content is unknown.

In the area covered by the application, unweathered rock occurs from 1 to 5 feet from the surface. The examiners believe that this zone of possible pegmatite extension should be stripped along its trend for another 100 feet to uncover rock in place. After stripping has been completed, not more than five shallow (4 feet) test pits should be sunk on the more favorable exposures. If results from this work is satisfactory, an inclined shaft 50 feet deep should be sunk on the pegmatite and 75 feet of drift driven from the shaft. No toolhouse or magazines will be required, as the existing facilities at the active mine will be sufficient.

Estimated Cost: Stage I.

Strip zone 100' x 12' x 4' (average depth) Bulldozer, 5 hrs. @ $10/hr.	$ 50.00
Sink 5 test pits to depth of 4', at $30/each	150.00

Stage II

Sink 50-foot, 5' x 7' incline (35 shifts)

Labor:

1- miner @ $1.50/hr	$420.00	
1- hoistman @ $1.25/hr	350.00	
1- laborer @ $1.00/hr	280.00	

Equipment (rental):

Compressor (1/2 time as it will be used on two projects) @ $200/Mo.	175.00	
Hoist @ $50/Mo.	87.50	
Drill @ $25/Mo.	43.75	

Supplies:

Explosives	150.00	
Gasoline and oil	100.00	
Pipe, airline, etc.	100.00	
Drill steel	150.00	
Small tools	100.00	
Miscellaneous	143.75	
Insurance, Social Security, etc.	150.00	$2,250.00

45.00

Drive 75 feet of drift on pegmatite (40 shifts)

Labor:

1 - miners @ $1.50/hr.	480.00
1 - Hoistman @ $1.25/hr.	400.00
2 - Laborers @ $1.00/hr.	640.00

Equipment: (rental)

Compressor @ $200/Mo. (1/2) time)	200.00
Hoist @ $50/Mo.	100.00
Jack leg and drill @ $40/Mo.	80.00

Supplies:

Explosives	200.00	
Gasoline and oil	100.00	
Drill steel	100.00	
Pipe, etc.	100.00	
Small tools	50.00	
Miscellaneous	100.00	
Social security and insurance, etc.	125.00	2,675.00

35.67

Estimated total cost of Stage I and II $5,125.00

9-15-54.

Lawrence E. Shirley,
Mining Engineer, U.S.B.M.

K. H. Teague and D. H. Ames, Geologists
U. S. Geological Survey

600 AUG 27 1954

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

Subject: Docket No. DMEA-3443 - Mica
Charles Hyatt
Green Mountain Mine
Yancey County, North Carolina

Dear Mr. Laurence:

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

Copies of memoranda from the Geological Survey, dated August 16, 1954, and from the Bureau of Mines, dated August 23, 1954, are enclosed for your information.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

Approved:

J. H. Hedges

Member, Bureau of Mines

S/Thor L. Kiilsgaard

Member, Geological Survey

Enclosures 4
WCAnderson:gad 8/27/54
Copy to: Admr. R. File
Docket
Operating Committee
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5227
Mr. Houk

Mr. Charles Hyatt

Burnsville, North Carolina

Re: Docket No. DMEA-3443 - Mica
Green Mountain Mine
Yancey County, North Carolina

Dear Mr. Hyatt:

Your application for exploration assistance on the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. Robert A. Laurence, Executive Officer, DMEA Field Team, Region VII, Room 13, Post Office Building, Knoxville 2, Tennessee, for further consideration and possibly a field examination.

Please execute and return the six copies of the Owner's Consent to Mine forwarded by the Knoxville Office.

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

Sincerely yours,

S. S. Mittendorf

Administrator

WCAnderson:gad 8/27/54
Copy to: Admr. R. File
Docket
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Kiilsgaard, 5227
Mr. Houk

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

August 23, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3443 (mica)

Applicant: Charles Hyatt

Name and Location of Property: Green Mountain Mine
Yancey County, North Carolina

Date Application Rec'd. by Ceramic & Fertilizer Mtls. Br.: August 11, 1954

Comments:

1. It appears that this application is similar to Docket 3442.
2. The Field Team should contact both parties to determine if the two applications are the same Mine.

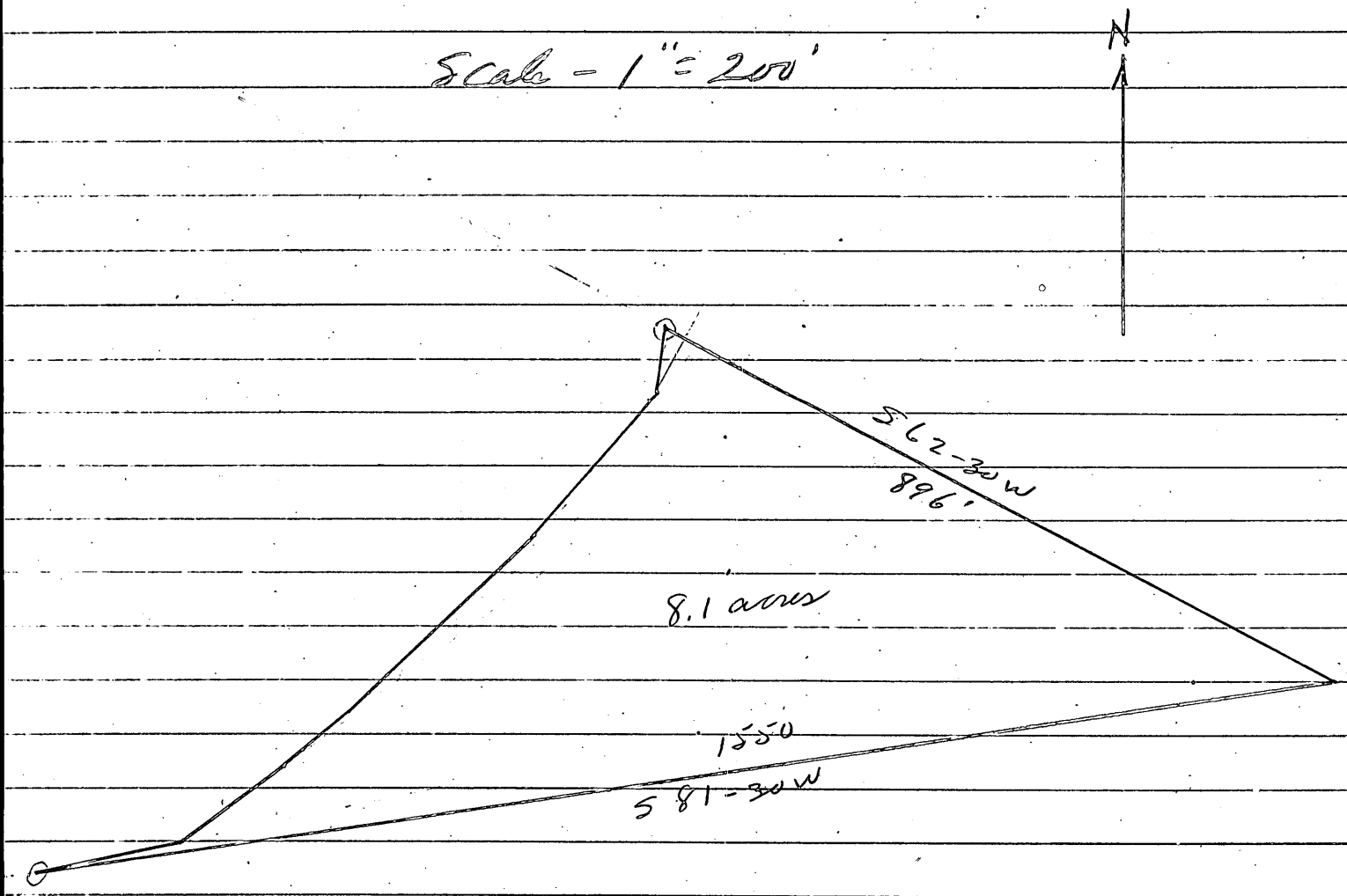
Recommendation:

It is recommended that the field team visit this mine when in that vicinity to ascertain if an exploration project is justified. If so, the field team and applicant should agree on a definite plan of exploration on a unit-cost basis.

W. F. Dietrich

Dwea 3443
Green Mt. Mine

Scale - 1" = 200'



IN REPLY REFER TO:

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

August 12, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3443 (mica)

To: Lawrence G. Houk, Defense Minerals Exploration Administration
From: R. D. Trace, U. S. Geological Survey
Applicant's name and address: Charles Hyatt, Burnsville, N. C.
Name of property: Green Mountain Mine
Location of property: Yancey County, N. C.
Summary of applicant's proposal:
1) Sink 60-foot shaft.
2) Drift 50 feet
Sources of information on applicant's property: Unpublished report in Survey Files by: Irwin, W. P., Green Mountain Mica Mine, Yancey County, N. C., 4 pages and 1 illustration, September 1944.
Comments: According to Irwin, the workings at the Green Mountain mine consist of long narrow open cuts for more than 500 feet along the strike of the pegmatite. The workings range from 4 to 8 feet in width, 3 to 65 feet in depth, trend N. 15° E., and are inclined 55° SE.

The pegmatite, which is in a biotite gneiss, is primarily a medium to coarse grained aggregate of oligoclase, quartz, and muscovite. The pegmatite occurs as "pinching and swelling" bodies, ranging from barely traceable stringers to 3½ feet in width.

Irwin said: "The mica in the Green Mountain pegmatite is a ruby to rum muscovite. Books as large as 4 x 6 inches are common, but the average size is about 3 x 5 inches. The mica is hard, flat, and free-splitting. A small percentage of it contains light speckled mineral staining. "A" structure is common. The chief defect is ruling. A few books contain triangular and hexagonal inclusions of biotite.

"The mica appears to be distributed uniformly throughout the thick and thin portions of the dike. Although the concentration of mica within any given portion of the dike is not strong, the percentage yield of sheet is high.

"The continuity of the pinching and swelling pegmatite bodies along the strike suggests that there is a somewhat similar continuity down the dip. Such a condition would give the Green Mountain mine substantial reserves of mica."

Irwin gives the known production as follows:

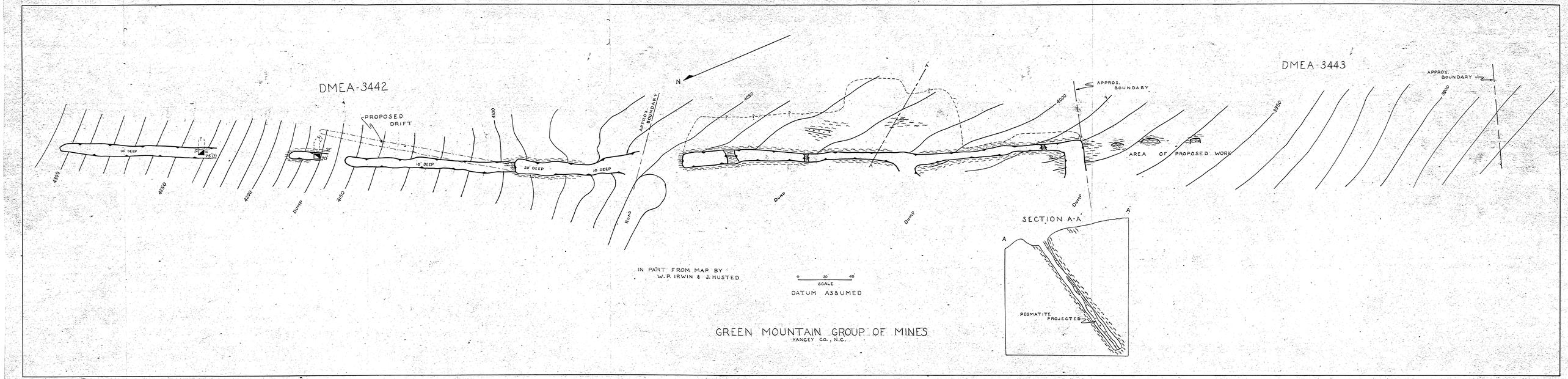
Aug. 43 to Sept. 44	1,774.18 pounds mica	value $10,917.70

RECOMMENDATION: Refer to Field Team.

R. D. Trace

RDTrace:hlm
G-8/12/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
W. F. Dietrich, 3061


DMEA-3442
DMEA-3443
N
PROPOSED DRIFT
10' DEEP
75'
20'
20' DEEP
10' DEEP
APPROX. BOUNDARY
APPROX. BOUNDARY
APPROX. BOUNDARY
4300
4250
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4100
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4000
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DUMP
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ROAD
AREA OF PROPOSED WORK
A
A'
SECTION A-A'
PEGMATITE PROJECTED
IN PART FROM MAP BY W.P. IRWIN & J. HUSTED
0 20' 40'
SCALE
DATUM ASSUMED
GREEN MOUNTAIN GROUP OF MINES
YANCEY CO., N.C.