DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2642

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This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip

Copies to USBM, USGS, and Region VII.

To:	Code 600, Rm. 4637	Date	8-5-52
To:	Hearne	Date	8/6/52
To:	Op Com	Date	8-29-52
To:	Op Com	Date	10/13/52
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FILE COPY
SURNAME:

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

Hearne
Houk
Sighel
Shum
Eglemeier

OCT 14 1952

Mr. Ben L. Ray
Murphy Mining Company
Murphy, North Carolina

Subject: Docket No. DMEA-2642 - Mica
Ray & Hyde
Jim Riddle Mine
Yancey County, North Carolina

Dear Mr. Ray:

Reference is made to your application for exploration assistance on the Jim Riddle Mine in Yancey County, North Carolina.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding mica of strategic quality in significant quantities to be of importance in the National Defense Program. A review of available information fails to show the probability of making a significant discovery on your property, and hence Government participation in the proposed project is not justified.

The Defense Minerals Exploration Administration wishes to thank you for your interest in the defence program.

Sincerely yours,

C. O. Mittendorf (LW)

Administrator

S.H. 10-14-52

LFHearne:gad 10/10/52

Copy to: Adm. R. File
Docket File
Operating Committee (2)
Field Team, Region VII
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

October 10, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Resume - Docket No. DMEA-2642 - Mica
Ray and Hyde
Jim Riddle Mine
Yancey County, North Carolina

Aug. 5, 1952	Received application dated July 30, 1952, covering $10,000 for cleaning out an open-cut, benching and shaft sinking.
Aug. 6, 1952	U.S.G.S. recommends denial, citing Colonial Mica Corporation purchases of only green mica during World War II.
Aug. 25, 1952	U.S.B.M. recommends field examination based on tests reported in U.S.G.S. Professional Paper 225, page 85, applicant's claim to have sold 1,500 pounds of ruby mica during World War II, and location close to productive mines.
Aug. 29, 1952	Referred to field.
Sept. 9, 1952	Field report recommends denial due to classification of sample submitted to the Spruce Pine Mica Depot as containing 70% green mica.
Sept.30, 1952	U.S.G.S. recommends denial.
Oct. 8, 1952	U.S.B.M. recommends denial.

Laurance F. Hearne

Laurance F. Hearne

FILE COPY
SURNAME:

Hearne
Houk

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

October 10, 1952

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: Resume - Docket No. DMEA-2642 - Mica
Ray and Hyde
Jim Riddle Mine
Yancey County, North Carolina

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Laurance F. Hearne

Laurance F. Hearne

LFHearne:gad
Copy to: Adm. R. File
Docket File
Mr. Houk

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

Mr Hearne

October 8, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2642, Mica, Jim Riddle Mine, Yancey County, Murphy, North Carolina

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

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 8 1952

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

October 8, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2642, Mica, Jim Riddle Mine, Yancey County, Murphy, North Carolina

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W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

Mrs Hearne

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

Sas

September 30, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 30 1952

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-2642 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: R. E. Van Alstine, U. S. Geological Survey
Applicant: Murphy Mining Company, Murphy, North Carolina.
Name of property: Jim Riddle mine.
Location of property: W. side of S-flowing tributary of Cattail Creek, west of Grassy Ridge; 1.25 airline miles due E. of Pensacola, Yancey County, North Carolina.
Date of field team report: September 18, 1952.
Authorship of field team report: K. H. Teague, L. E. Shirley, A. L. Peyton.
Field team's recommendation: Deny application -- green mica, unacceptable for stockpiling, with much "A" structure and abundant black biotite spots. Most books are bent and cracked.
Comments: Prospects of finding a deposit of strategic mica here seem poor.
ACTION SUGGESTED: Follow field team's recommendation.

R. E. Van Alstine

R. E. Van Alstine

Mr Hearne

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

Room 13, Post Office Building
Knoxville 2, Tennessee

September 18, 1952

Memorandum

To: Operating Committee, DMEA -Washington

From: Field Team, DMEA -Region 7

Subject: DMEA-2642, Jim Riddle Mine (mica) Field Report.

Transmitted herewith are 4 copies of the field examination report on the above subject.

The field team concurs in the denial of this application.

Robert A Laurence

Robert A. Laurence
Executive Officer, DMEA
Region 7

Wm A Beck

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 22 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

DMEA-2642, JIM RIDDLE MINE, (Mica)

Applicant: Murphy Mining Company
c/o Ben L. Ray, Townson Bldg.
Murphy, North Carolina

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 22 1952

By

Kefton H. Teague, Geologist
U. S. Geologial Survey
-
A. L. Peyton, Mining Engineer
and
Lawrence E. Shirley, Mining Engineer
U. S. Bureau of Mines

September 18, 1952

Report of Field Examination on

DMEA-2642, JIM RIDDLE MINE (mica)

Applicant: Murphy Mining Company
c/o Ben L. Ray, Townson Bldg.
Murphy, North Carolina

The applicants submitted a sample of mica to the Spruce Pine Mica Depot for appraisal. They classed about 70 percent of the material as green in color, unacceptable for stockpiling. Most of the mica observed at the mine is green in color; therefore, on color alone the loan request should be denied.

The Field Team examined the deposit on September 9, 1952, accompanied by both Ray and Hyde. Two hours were spent on the examination.

The Jim Riddle mine is located along the west side of a south flowing tributary of Cattail Creek, west of Grassy Ridge, 1.25 airline miles due east of Pensacola, Yancey County, North Carolina. Access to the property is good.

Early history of this mine is unknown. Apparently it was first worked by Ray and Silvers. During World War II Pollard and Bell worked the mine and produced 2090.71 pounds of green mica which was sold to the Colonial Mica Corporation for $2,677.63.

The pegmatite has been mined to a shallow depth along the strike for a distance of 200 feet. It varies in thickness from 2 to 6 feet, with the thickness changing abruptly along both strike and dip. The pegmatite strikes in a general northwestern direction, dipping steeply to the southwest.

The pegmatite is poorly zoned, consisting of a medial core of glassy quartz surrounded by feldspathic pegmatite which is composed of plagioclase, small quartz and muscovite. Numerous inclusions of the biotite kyanite gneiss wall rock occur in the pegmatite.

The mica is colorless to green in color. The majority of it shows "A" structure and a lot of it contains black biotite spots. Most of the mica books are bent and cracked. Very little mica suitable for stockpiling could be obtained from this deposit; therefore, the loan should be denied.

Sept. 9, 1952

K. H. Teague, USGS
L.E. Shirley, USBM
A. L. Peyton, USBM

zm.

FILE COPY
SURNAME:

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

600

Hearne
Houk

AUG 29 1952

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

Subject: Docket No. DMEA-2642 - Mica
Ray & Hyde
Jim Riddle Mine
Yancey County, North Carolina

Dear Mr. Laurence:

The memoranda from the U. S. Geological Survey and U. S. Bureau of Mines in regard to the above application are enclosed.

An examination by the Field Team is requested together with recommendations as to the proposed exploration program.

A sample of the mica should be submitted to the Spruce Pine buying depot for evaluation.

"Owner's Consent to Lien" must be secured from the lessor before a contract can be executed.

Sincerely yours,

S.N. 8-29-52

N. L. Feller (GHB)

ACTING Chairman, Operating Committee
Hearing: 8/28/52

Enclosures - 2
Approved:

C. N. Johnson GHB
Member, Bureau of Mines

D. M. Lemmon GHB
Member, Geological Survey

cc: Docket File
Adm. Reading File
Operating Committee
Mr. Norton, G0232, GSA Bldg.
Mr. Dietrich, 3526
Mr. Houk

FILE COPY
SURNAME:

Hearne
Hirsh
Lemmer
Johnson
Walter

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

600

AUG 29 1952

Mr. Ben L. Ray
Murphy Mining Company
Townsen Building
Murphy, North Carolina

Subject: Docket No. DMEA-2642 - Mica
Jim Riddle Mine
Yancey County, North Carolina

Dear Mr. Ray:

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

Sincerely yours,

C. O. Mittendorf (for) 8-29-52

Acting Administrator

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

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

Mr Hearne

August 25, 1952

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-2642, Mica, Jim Riddle Mine, Yancey County, North Carolina

The Geological Survey (Professional Paper 225, p. 85) tested 28 pieces of mica from subject mine to be 100 percent of E-1 capacitor quality and color was classed as light cinnamon brown, generally acceptable as ruby mica. Applicant claims approximately 1500 pounds of good grade ruby mica was sold during World War II. General location within proximity of productive mines supports possibility of obtaining usable sheet mica. On the basis of these facts and the applicant's description of present exposures, a field team investigation is recommended.

W. F. Dietrich

W. F. Dietrich

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 26 1952

IN REPLY REFER TO:

G-MD-CNM

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

August 6, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2642 (Mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: P. L. Weis, U. S. Geological Survey
Applicant: Murphy Mining Company.
Name of property: Jim Riddle Mine.
Location of property: Yancey County, North Carolina.
Estimated cost of project: $10,000.
Summary of applicant's proposal:

1) Clean out existing open cut.
2) Benching to one level.
3) Excavate a shaft.

Sources of information on applicant's property:
Colonial Mica Corporation purchase records.
Comments:

1) Colonial Mica Corporation lists 2090 lb. of green mica, worth $2,677, purchased from this property during World War II.
2) In view of the fact that all past production recorded from this mine has consisted of green mica, the property does not appear to constitute a favorable locality in which to explore for strategic mica.

RECOMMENDATION: Denial.

Paul L. Weis

Paul L. Weis

EXPLORATION

Subject: DMEA-2642
Re: Exploration Loan
Jim Riddle Mine
August 5, 1952

Mr. Ben L. Ray
Murphy Mining Company
Murphy, North Carolina

My dear Mr. Ray:

This will acknowledge receipt of your application dated July 30, 1952, for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2642 and referred to the Non-Metallic Minerals Division.

Kindly refer to DMEA-2642 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operation's Control
and Statistics Division

7862

DMEA-2642

C. E. HYDE
ATTORNEY AT LAW
TOWNSON BUILDING
MURPHY, N. C.
TELEPHONE 145

August 2, 1952

Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Dear Sirs:

Am enclosing herewith application for aid in an exploration project for mica, pursuant to DMEA order 1, under the defense Production Act of 1950, as Amended, there being four copies forwarded.

If there is any further information required, it will be appreciated if you will advise the undersigned, one of the applicants.

Yours very truly,

C. E. Hyde

C. E. Hyde

P.S. Map is enclosed showing approximate location of project.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 5 1952

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
NOV 5 1952

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2642
Metal or Mineral
Date Received 8-5-52
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Ben L. Ray and C. E. Hyde, partners d/b/a Murphy Mining Company
(b) partnership organized in North Carolina, Cherokee County
(d) Ben L. Ray and C. E. Hyde

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract 25 acres surrounding what is known as the "Jim Riddle Mine" on Cattail Creek, Yancy County, N.C. (For particular description see copy of lease attached hereto.)

(*b*) State any mine name by which the property is known. Jim Riddle Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise lessee

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

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

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

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

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

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

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

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

5. *The exploration project.*—(*a*) [redacted]te the mineral or minerals for which you w[redacted]o explore Ruby Mica

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 10 days and be completed within six months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☒ Use of equipment owned by you ☒ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated July 30th, 1952

Murphy Mining Company
(Applicant)

By Ben L. Bay, partner

C E Hyde, partner

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

SUPPLEMENT TO APPLICATION OF BEN L. RAY AND C. E. HYDE, d/b/a MURPHY MINING COMPANY FOR AID IN EXPLORATION PROJECT PURSUANT TO DMEA ORDER 1.

4(a) Physical description. During the last war we are informed that exploration was conducted at this location by Bell & Pollard, of Memphis, Tennessee, with funds provided by the government at that time. Since the government price support was removed at the close of World War II no pperations have been conducted. Bell and Pollard cut an open pit up and down the slope of the mountain and across a vein of pegmatite bearing mica. The cut extends up and down the mountain for approximately 80 feet and is from 10 to 30 feet deep, and 40 feet wide. The workings are within approximately 100 yards of a good graveled road and only about 3 miles from Pensacola, in Yancey County, N.C, Pensacola being on a paved highway, 10 or 12 miles south of Burnsville.

4(b) It is understood that Bell and Pollard took out approximately 1500 pounds of good grade, ruby mica, however, we do not have access to the records which we understand to be in the possession of Colonial Mica Company, who was the buying agency under the World War II government mica program, and to which records we understand DMEA has access.

4(c) What appears to be muscovite bearing pegmatite is exposed by the cut. The pegmatite is plentifully streaked with quartz. The country rock strikes slightly east of North and appears to dip very steeply. There appear to be two mica bearing veins which will probably run together at some depth. The location is within one mile of the Cattail Mine, now producing copiously. It is apparently on the strike of the old Ray Mine, very profitably operated foo many years.

4(d) The project has a good graveled road within 100 years, paved highway within 3 miles. The buying agency which has been set up at Spruce Pine is within 25 miles over paved highway. The project is within about 40 miles of Asheville, N.C.

4(e) Manpower is available readily, materials and supplies can be obtained quickly at Burnsville, Spruce Pine, or Asheville. Water is within 100 yards, an electric line about the same distance. Applicants already have a compressor with drill and equipment therefor, ready to put on the project. This drill and compressor, with small equipment, readily available, is all that is needed for some time. It is anticipated that a hoist will be needed a little later. The hoist can be rigged on comparatively short notice from materials available to applicants.

5(b) The cut made by Bell & Pollard has two elevations. It is intended to first clean out the cut, then bench down the higher elevation to the lower, carrying out the muck from the lower bench by wheelbarrow. When the entire cut has been benched down to the lower level, we intend to open a shaft down to where we anticipate the two outcropping veins will come together, where we hope to find the true mica zone.

5(c) It is intended that Ben L. Ray, one of the partners, will supervise the work. Mr. Ray is familiar with mica mining, having been born and raised in Yancey County. He worked for his father, R. M. Ray, who found and successfully operated the Blue Rock Mine at Blue Rock in Mitchell County for three or four years. Mr. Ray has operated a rock quarry for the past six years and is thoroughly familiar with the shooting and drilling of rock. Both partners have also been engaged for approximately three years in the drilling and prospecting for talc in Cherokee County.

6. Estimate of costs is as follows; the figures quoted are costs over the expected period of six months required: Independent contractors - none.

Labor, three men at $1.00 per hour	$3120.00
Supervision (two hundred per month)	1200.00
c Consultants	100.00
Electricity	120.00
Fuel Fuel	780.00
Drill bits, Steel, small tools, etc.	600.00
Explosives	500.00
Bookkeeping	150.00
Use allowance on compressor and drill with equipment (equipment valuation $2000.00).....	600.00
Cost of Hoist	1500.00
Workments Comp and Liability Insurance	300.00
Unforseen contingencies	1030.00
Total	$10,000.00

7. We are prepared to contribute our portion of costs in any manner required, but our present intent is to furnish the compressor, drill and equipment as a portion thereof at $600.00 use allowance, and also to furnish supervision at $200.00 per month, which can be credited upon our contribution. If preferred we can pay ~~the balance~~ our portion in cash.

STATE OF NORTH CAROLINA,

YANCEY COUNTY.

This indenture made this 11th day of June 1952, between R. L. Riddle and Sudie W. Riddle of Yancey County and State of North Carolina, as parties of the first part, and known as lessors, and Ben L. Ray and C. E. Hyde, of Cherokee County and State of North Carolina, of the Second part and known as lessees:

WITNESSETH, That the parties of the first part, in consideration of the agreements hereinafter contained, on the part of the parties of the second part to be performed, hereby bargains, leases and grants to the parties of the second part, and their heirs and assigns, for the period of five years from the date of this agreement, the following described real property, for mining purposes, in the County of Yancey, State of North Carolina, to wit:

BEGINNING ON a Chestnut, J. C. Wilsons corner and runs a Northwest course, a marked line to the top of Arthur Ridge, to a locust corner in R. R. Ray's line; thence down with the main height of said ridge to R. R. Ray's and E. J. McMahans corner; thence a South course with E. J. McMahan's line to a Chestnut marked as a corner and pointers; thence a South course with John G. McMahan's line to a Chestnut Oak stump, a corner of the Hiram Ray Old tract of land; thence an East course with the Hiram Ray Old line to the BEGINNING, containing 25 acres, more or less.

This mine is known as the "Jim Riddle " mine.

It is agreed that at the expiration of this lease lessees shall have the option to renew the same for an additional five (5) year period under the same terms and conditions.

TO HAVE AND TO HOLD the said lands to them, for mining purposes, the said Ben L. Ray and C. E. Hyde, and their heirs and assigns for the aforesaid period of five years upon a full compliance with the conditions of this instrument, for the purpose and with the right to dig, quarry, search for and obtain any kind of minerals, metals or fossils, and particularly Mica and to conduct the same to any extent the said parties of the second part may desire. And it is hereby agreed between the parties to this agreement that the parties of the second part are to have the use of the unoccupied buildings on said lands for mining purposes, or have a right to erect such, if necessary, during the continuance of this lease, and keep the same in as good condition as when received, unavoidable accidents excepted. And it is also agreed by parties of the second part that no unnecessary damage is to be done to the lands herein leased during the continuance of said lease, but the said parties of the second part shall have right to take from said lands

of party of the first part any wood or timber to carry on said mining operations or to erect buildings on said lands. (Timber of high or special market value excepted.) And the parties of the second part are to have right-of-way of ingress and egress to said mines. The said parties of the second part hereby agree to pay to the said parties of the first part, or their heirs or assigns, a rental or royalty of a one-eighty, on all mica taken and sold from said mines for the use of the said lands for the aforesaid period of five years only; payable as follows: Payable on computation of selling bills on the tenth of each month covering sales during the previous month. Royalties on all other minerals mined and sold shall be determined on a percentage basis and be governed by the market value.

The lessors reserve the right to use the land, or convey the same not conflicting with this lease, but under any conveyance the terms of this lease must be recognized by the assigns thereof.

But it is expressly agreed that unless mineral or fossil material of practical value for mining purposes shall be found within sixty days from the date of this instrument, this lease may be terminated by the lessees at any time thereafter, on thirty days notice to the lessors. The lessees agree that during continuance of this lease work in said mines shall not cease longer than Ninety days at any one time, unavoidable accidents excepted.

Witness our hands and seals the day and year first above written.

R. L. Riddle (SEAL)

Sudie W. Riddle (SEAL)

Witness: Ben L. Ray (SEAL)

_____ C. E. Hyde (SEAL)

DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1201 NORTH DIVISION STREET
SPOKANE 2, WASHINGTON

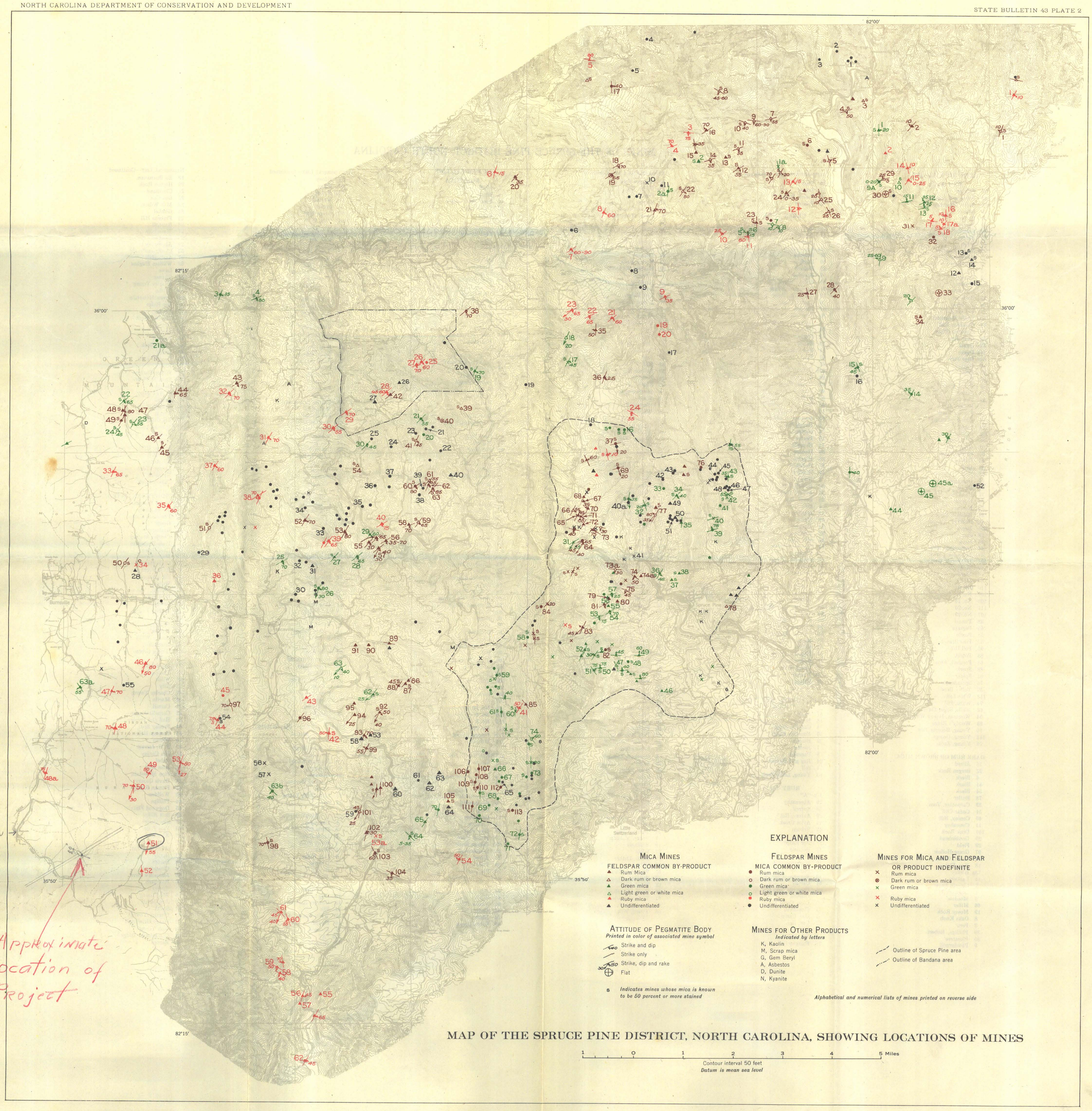
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGG)

SPOKANE
AUG 11
7 30PM
1952
WASH.

Chairman, Operating Committee,
DMEA
Washington 25, D. C.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
IN COOPERATION WITH
NORTH CAROLINA DEPARTMENT OF CONSERVATION AND DEVELOPMENT



MAP OF THE SPRUCE PINE DISTRICT, NORTH CAROLINA, SHOWING LOCATIONS OF MINES

MINES OF THE SPRUCE PINE DISTRICT, NORTH CAROLINA

ALPHABETICAL LIST

RUM MICA

27 Aldrich
48 Bailey and Johnson
100 Bailey Mountain
42 Banner
57 Barger
28 Barrett
36 Bartlett
17 Biddix
15 Birch
13 Black, Vance
91 Blackjack Ridge
79 Bloodworth
2 Bluff
23 Branch
55 Branch
70 Buchanan
56 Buckeye
106 Buckeye
71 Bunker Hill
82 Chalk Mountain
37 Chestnut Flat
85 Chestnut Flats
43 Curl, Jim
73 Davis
74a Deake
64 Deer Park
16 Dugger
93 Edge
103 Edge
69 Emily Knob
63 Fate
67 Flat Rock
87 Flukens Ridge
89 Flukens Ridge
12 Four Foot Square
94 Gibbs
102 Gibbs, Myra
96 Gibbs Spar
31 Grapevine
35 Green, Dave
86 Gurley
81 Guy
99 Hall
45 Hampton
21 Hawk
77 Hawkins
84 Hoppus
72 Horton
24 Houston Rock
49 Huskins
105 James
68 Jase
46 Jones
44 Letterman, John
47 Letterman, M. P.
104 McDowell, Gaston
60 McKinney
6 Marie
80 Miller
110 No. 3
109 No. 6
108 No. 18
111 No. 20
107 No. 29
38 Pannel
65 Pegram
58 Perrin
32 Pine Branch
95 Poll Hill
83 Poteat
53 Presnell, Amos
88 Speck
92 Spider
76 Spreadeagle
52 Tolley Bend
113 Whitehall
74 Willis, Bill
62 Willis, Sugar Dave
34 Wiseman, Honey Waits
98 Woody's Ridge
90 Young, Boomer Tom
112 Young, George
20 Young, Zach

DARK RUM OR BROWN MICA

26 Alfred
22 Bergen Rock
4 Black
41 Black
54 Black
78 Butler
33 Carpenter, Tom
51 Cedar Cliff
40 Conley, Bill
11 Connahey
101 Dink Rock
25 Doublehead
29 Field
97 Grape Hollow
59 Green, Gibbs
18 Haw Flat
73a Hickey
14 Landers
7 Lincoln Rock
1 Lineback
5 Meadow
66 Miller
19 Mossy Rock
8 Oaks Knob
3 Peru
39 Phillips, Robert
30 Plumtree
9 Powdermill

ALPHABETICAL LIST—*Continued.*

10 Shop
61 Sidney
50 Vance, Sugar
75 Westall

GREEN MICA

9a "A"
45a "A"
27 Anglin
51 Autrey, Al
1a Bad Branch
70 Bearden
50 Black
37 Blalock
5 Boonfield
45 Brushy Creek
17 Buchanan, Adam
19 Buchanan, Jake
6 Champ Rock
52 Childers
59 Cox, Wood
4 Deyton, Carroll
54 Drawbar
42 English Knob
58 Estatoe
11 Fall Branch
61 Field
71 Glenn
63b Goodin, Joe
26 Googrock
62 Gouge, Fannie
43 Gouge's Creek
57 Griffin
65 Grindstaff, Henry
15 Gusher Knob
68 Hall and Boone
2 Happy Hill
73 Harlan
29 Hector
14 Hempile
39 Henline
25 Higgins
67 Hollifield
60 Hootowl
3 Horse Ridge
30 Howell, Jeff
21 Jarrett, Ralph
55 Lewis, Buck
1 Lick Log
48 McChone
49 McChone
34 McClellan
72 McKinney
44 Mill Race
31 Number Twelve
21a Peterson
38 Peterson
41 Pink
32 Pitman, Mary
46 Queen
22 Randolph
56 Renfroe
33 Riddle
28 Robinson, Charles
64 Sally Knob
66 Silvers Ridge
12 Slippery Elm
53 Smith, Calhoun
36 Smith, Lissie
20 Sparks, Clyde
16 Sugartree Cove
35 Sullins Rock
13 Vance, Friel
63a Westall
69 Wildcat
40 Wiseman

LIGHT GREEN OR WHITE MICA

47 Adam
18 Buckeye
8 Charlies Ridge
10 Emmons Knob
23 Huskins
7 Justice
9 Pancake
24 Ray and Deyton
74 Self
63 Young, Little Zeph

RUBY MICA

17a "A"
29 Abernathy
53 Autrey
59 Autrey, Bill
44 Ayles Creek
49 Balsam
8 Bardon
38 Bee Ridge
18 Benfield
34 Bittner
19 Buchanan, Ed
12 Bug Rock
13 Burleson, Charley
51 Cattail
30 Chestnut Branch
7 Clarissa
5 Clear Creek Ridge
21 Cloudland
1 Cow Camp
22 Cox, Ben
14 Elk
2 Elk, Little
25 Flukens Hill

ALPHABETICAL LIST—*Continued*

46 Georges Fork
53a Gibbs, Big
24 Gimbel
41 Gopher
52 Grassy Wood
37 Green Mountain
36 Griffin
31 Hall, Andy
3 Hawk, Little
4 Hawk Ruby
43 Hilliard
16 Hoppey
20 Horton Rock
32 Hughes, William
17 Johnson
61 Klondike
33 Laws
6 Lick Ridge
60 Locust Ridge
48a McPeters, Flem
40 Murphy Rock
54 Murphy Rock
10 Pitman
39 Presley
50 Presley, S. W.
26 Randall
47 Ray
42 Red
57 Sawnee Hill
28 Sinkhole
45 Smith
9 Stevenson, Joe
5 Ward
27 Waterhole
58 Westall
15 White Rock
56 Whitson
48 Willie's Shanty
23 Wilson, Milt
11 Wolf Ridge
35 Young, Charley

UNDIFFERENTIATED

32 Anglin, Cornelia
2 Bailey, Dover
65 Barnes
1 Beech Bottom
12 Big Meadow
56 Bowditch
7 Buchanan, Press
11 Buchanan, Russ
15 Buck Hill
5 Burleson
53 Burton
52 Butler
31 Carroll
54 Clinchfield
64 Commissary Ridge
38 Conley, Jim
41 Davis Quarry
45 Dogwood Flats
4 Gouge
24 Gouge
59 Gouge, Jim
47 Gouge, Sim
8 Green, Chet
23 Green, George
9 Green, Marv
62 Grindstaff, Henry
40 Hall, John
33 Hall and Presley
10 Hawk, Little
37 Jarrett, F. G.
50 Jimmy Cut
55 Johnson's Cove
49 Klondike
20 McNeal
30 Martin
17 Mullins Laurel
22 Murdick
16 Patrick
44 Phillips
40a Pine Mountain
42 Pitman Rough
34 Presley Spar
3 Puncheon Camp
39 Rebel
48 Rose, Fate
28 Silly
57 Silvers
60 Smith,
46 Soft Ridge
18 Sol
25 Sparks, Jeff
6 Stamey, Charley
26 Thomas
35 Tommy Hole
14 Vance, Matilda
19 Williams
27 Willis
21 Willis, Luther
36 Wilson
51 Wiseman, Buna
43 Wolfden
13 Woody
29 Young, Charley
61 Young, Charley
63 Young, Josh
58 Young, Wilt

NUMERICAL LIST

RUM MICA

2 Bluff
6 Marie
12 Four Foot Square
13 Vance Black
15 Birch
16 Dugger
17 Biddix
20 Zach Young
21 Hawk
23 Branch
24 Houston Rock
27 Aldrich
28 Barrett
31 Grapevine
32 Pine Branch
34 Honey Waits Wiseman
35 Dave Green
36 Bartlett
37 Chestnut Flat
38 Pannel
42 Banner
43 Jim Curl
44 John Letterman
45 Hampton
46 Jones
47 M. P. Letterman
48 Bailey and Johnson
49 Huskins
52 Tolley Bend
53 Amos Presnell
55 Branch
56 Buckeye
57 Barger
58 Perrin
60 McKinney
62 Sugar Dave Willis
63 Fate
64 Deer Park
65 Pegram
67 Flat Rock
68 Jase
69 Emily Knob
70 Buchanan
71 Bunker Hill
72 Horton
73 Davis
74 Bill Willis
74a Deake
76 Spreadeagle
77 Hawkins
79 Bloodworth
80 Miller
81 Guy
82 Chalk Mountain
83 Poteat
84 Hoppus
85 Chestnut Flats
86 Gurley
87 Flukens Ridge
88 Speck
89 Flukens Ridge
90 Boomer Tom Young
91 Blackjack Ridge
92 Spider
93 Edge
94 Gibbs
95 Poll Hill
96 Gibbs Spar
98 Woody's Ridge
99 Hall
100 Bailey Mountain
102 Mira Gibbs
103 Edge
104 Gaston McDowell
105 James
106 Buckeye
107 No. 29
108 No. 18
109 No. 6
110 No. 3
111 No. 20
112 George Young
113 Whitehall

DARK RUM OR BROWN MICA

1 Lineback
3 Peru
4 Black
5 Meadow
7 Lincoln Rock
8 Oaks Knob
9 Powdermill
10 Shop
11 Connahey
14 Landers
18 Haw Flat
19 Mossy Rock
22 Bergen Rock
25 Doublehead
26 Alfred
29 Field
30 Plumtree
33 Tom Carpenter
39 Robert Phillips
40 Bill Conley
41 Black
50 Vance, Sugar
51 Cedar Cliff
54 Black
59 Gibbs Green

NUMERICAL LIST—Continued

61 Sidney
66 Miller
73a Hickey
75 Westall
78 Butler
97 Grape Hollow
101 Dink Rock

GREEN MICA

1 Lick Log
1a Bad Branch
2 Happy Hill
2a Carter Buchanan
3 Horse Ridge
4 Carroll Deyton
5 Boonfield
6 Champ Rock
9a "A"
11 Fall Branch
12 Slippery Elm
13 Friel Vance
14 Hempile
15 Gusher Knob
16 Sugartree Cove
17 Adam Buchanan
19 Jake Buchanan
20 Clyde Sparks
21 Ralph Jarrett
21a Peterson
22 Randolph
25 Higgins
26 Googrock
27 Anglin
28 Charles Robinson
29 Hector
30 Jeff Howell
31 Number Twelve
32 Mary Pitman
33 Riddle
34 McClellan
35 Sullins Rock
36 Lissie Smith
37 Blalock
38 Peterson
39 Henline
40 Wiseman
41 Pink
42 English Knob
43 Gouges Creek
44 Mill Race
45 Brushy Creek
45a "A"
46 Queen
48 McChone
49 McChone
50 Black
51 Al Autrey
52 Childers
53 Calhoun Smith
54 Drawbarr
55 Luke Lewis
56 Renfro
57 Griffin
58 Estatoe
59 Wood Cox
60 Hootowl
61 Field
62 Fannie Gouge
63a Westall
63b Joe Toodin
64 Sally Knob
65 Henry Grindstaff
66 Silvers Ridge
67 Hollifield
68 Hall and Boone
69 Wildcat
70 Bearden
71 Glenn
72 McKinney
73 Harlan

LIGHT GREEN OR WHITE MICA

7 Justice
8 Charlies Ridge
9 Pancake
10 Emmons Knob
18 Buckeye
23 Huskins
24 Ray and Deyton
47 Adam
63 Little Zeph Young
74 Self

RUBY MICA

1 Cowcamp
2 Little Elk
3 Little Hawk
4 Hawk Ruby
5 Ward
6 Lick Ridge
7 Clarissa
8 Bardon
9 Joe Stevenson
10 Pitman
11 Wolf Ridge
12 Bug Rock
13 Charley Burleson
14 Elk
15 White Rock
16 Hoppey
17 Johnson
17a "A"
18 Benfield

NUMERICAL LIST—Continued

19 Ed Buchanan
20 Horton Rock
21 Cloudland
22 Ben Cox
23 Milt Wilson
24 Gimbel
25 Flukens Hill
26 Randall
27 Waterhole
28 Sinkhole
29 Abernathy
30 Chestnut Branch
31 Andy Hall
32 William Hughes
33 Laws
34 Bittner
35 Charley Young
36 Griffin
37 Green Mountain
38 Bee Ridge
39 Presley
40 Murphy Rock
41 Gopher
42 Red
43 Hilliard
44 Ayles Creek
45 Smith
46 Georges Fork
47 Ray
48 Willies Shanty
48a Flem McPeters
49 Balsam
50 S. W. Presley
51 Cattail
52 Grassy Wood
53 Autrey
53a Big Gibbs Clay
54 Murphy Rock
55 Clear Creek Ridge
56 Whitson
57 Sawnee Hill
58 Westall
59 Bill Autrey
60 Locust Ridge
61 Klondike
62 Carson Rock

Yancey County

UNDIFFERENTIATED

1 Beech Bottom
2 Dover Bailey
3 Puncheon Camp
4 Gouge
5 Burleson
6 Charley Stamey
7 Press Buchanan
8 Chet Green
9 Marv Green
10 Little Hawk
11 Russ Buchanan
12 Big Meadow
13 Woody
14 Matilda Vance
15 Buck Hill
16 Patrick
17 Mullins Laurel
18 Sol
19 Williams
20 McNeal
21 Luther Willis
22 Murdick
23 George Green
24 Gouge
25 Jeff Sparks
26 Thomas
27 Willis
28 Silly
29 Charley Young
30 Martin
31 Carroll
32 Cornelia Anglin
33 Hall and Presley
34 Presley Spar
35 Tommy Hole
36 Wilson
37 F. G. Jarrett
38 Jim Conley
39 Rebel
40 John Hall
40a Pine Mountain
41 Davis Quarry
42 Pitman Rough
43 Wolfden
44 Phillips
45 Dogwood Flats
46 Soft Ridge
47 Sim Gouge
48 Fate Rose
49 Klondike
50 Jimmy Cut
51 Buna Wiseman
52 Butler
53 Burton
54 Clinchfield
55 Johnson's Cove
56 Bowditch
57 Silvers
58 Wilt Young
59 Jim Gouge
60 Smith
61 Charley Young
62 Henry Grindstaff
63 Josh Young
64 Commissary Ridge
65 Barnes