DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3269

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Exploration Assistance

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.

1 cy to USBM, USGS, & Reg.

Routing Slip

To:	600	Date	3/4/54
To:	Open Corr	Date	3-17-54
To:	Anderson	Date	3/18/54
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FILE COPY
Surname:

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

JUN 17 1954

Mr. W. R. Young
Box 25
Minneapolis, North Carolina

Re: Docket No. DMEA-3269 - Mica
Iva Johnson Mine (?) I.M. Johnson Mine
Avery County, North Carolina

Dear Mr. Young:

Your application for aid for an exploration project and other reports available to us in Washington relating to the subject property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing significant reserves of mica by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

WCAnderson:gad 6/9/54
Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.J.

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

June 9, 1954

Memorandum

To: Administrator

From: Nonmetallic Minerals Division

Subject: A denial of exploration assistance and summary report.

By: Walter C. Anderson

1. DMEA Docket No. 3269 - Mica

Property: Iva Johnson Mine? I.M. Johnson Mine
Avery County, North Carolina

Applicant: W. H. Young
Box 25, Minneapolis, North Carolina

Application: Form MF-103, date received - March 4, 1954
Work proposed: Adit and laterals totaling 200 feet.
Amount requested: $3,943.37
No contract: Application denied.

2. Comments:

Geological premise: Continuation of a mica-bearing pegmatite.

Geological Criteria:
1. Unzoned pegmatite 20 feet thick.
2. Mica sparsely scattered throughout pegmatite.
3. Very small percent of mica is strategic.

Future possibilities: Remote for finding strategic mica.

Recommendations: Concur with field team that application should be denied. Geological Survey and Bureau of Mines concur.

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

June 3, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3269 (mica)

Applicant: W. H. Young

Name and Location of Property: Johnson Mine
Avery County, North Carolina

Date of Field Team Report: May 6, 1954

Date Rec'd. by Ceramic & Fertilizer Mtls. Br.: May 13, 1954

Field Team Recommendation:

1. Denial

Comments:

1. Mica found at subject mine not strategic quality.
2. Field Team is of the opinion that mica is not workable on an economic basis.

Recommendation:

I concur in the field team's recommendation to deny exploration at subject mine on the basis of the poor quality of the mica and uneconomic working conditions.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 13 1954

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

May 13, 1954

Memorandum

REVIEW OF FIELD TEAM REPORT ON APPLICATION DMEA-3269 (mica)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant: W. H. Young.
Name of property: Johnson Mine.
Location of property: Avery County, North Carolina.
Date of field team report: May 4, 1954
Authorship of field team report: K. H. Teague, L. E. Shirley, and D. H. Amos.
Field team's recommendation: Denial.
Comments: Cannot be worked economically. Mica non-strategic.
ACTION RECOMMENDED: Follow field team's recommendation.

D. M. Larrabee

D. M. Larrabee

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

May 6, 1954

Memorandum

To: Operating Committee - Washington

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

Subject: Examination Report on Johnson Mine, Avery County, N. C.
DMEA-3269 (mica) W. H. Young, applicant

Enclosed are 4 copies of the subject examination report.

We agree with the examiners' conclusion that an exploration contract at the Johnson Mine is not justified, and recommend denial.

Robert A. Laurence

Robert A. Laurence

Wm. A. Beck

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM, REGION VII

On

DMEA-3269, JOHNSON MINE (mica)
Avery County, N. C.

By

Kefton H. Teague, Geologist
U. S. Geological Survey
***
Lawrence E. Shirley, Mining Engineer
U. S. Bureau of Mines
***
Dewey H. Amos, Geologist
U. S. Geological Survey

May 4, 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON OFFICE
ROOM 15, POST OFFICE BLDG.
KNOXVILLE 2, TENN.

FIELD EXAMINATION REPORT
ON
DMEA-3269, JOHNSON MINE (mica)
Avery County, North Carolina

Applicant: W. H. Young, Box 25, Minneapolis, North Carolina

Most of the mica at this mine is not of strategic grade. In the opinion of the Field Team this mine is not workable on an economic basis; therefore, the request for exploration assistance should be denied.

The deposit was examined on April 8, 1954. Mr. W. H. Young accompanied the examiners on the inspection which required one and one-half hours.

This mine is not the Iva Johnson Mine, but is probably the mine formerly known as the I. M. Johnson mine. It is located on the south side of Squirrel Creek 0.35 airline miles N. 80° W. of Hughes, Avery County, North Carolina. A graveled secondary road passes within 200 feet of the mine.

There are no surface facilities on the property. The workings consist of a semicircular open cut about 30 feet in radius and a south trending adit 75 feet long from the south face of the cut.

A conformable pegmatite, striking S. 25° E. and dipping 35° SW., is well exposed in the cut and the adit. It is about 20 feet thick and has no apparent zoning. The pegmatite is composed of perthite, quartz, muscovite and biotite. The sparse muscovite is rather evenly scattered through the pegmatite and is small, ruled, curved, heavily mineral stained, tied, and green colored. Only a very small percent is of strategic quality.

According to the applicant the mine was worked during World War II by Dayton Burleson. Records of Colonial Mica Corp. show sales of $800.00 worth of green mica from an I. M. Johnson Mine in Avery County by D. E. Burleson.

As there are at present no indications of any considerable quantity of strategic grade mica and as past work would appear to have been uneconomical, the application for assistance should be denied.

May 5, 1954.

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

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

z

File Copy
Surname:

Houk
Stephens
Stanfield
Stillwaugh
Bilbrook

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

MAR 17 1954

Mr. W. H. Young
Box 25
Minneapolis, North Carolina

Re: Docket No. DMEA-3269 - Mica
Iva Johnson Mine
Avery County, North Carolina

Dear Mr. Young:

Your application for assistance in exploring 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.

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.

Your application is returned herewith for signature. Kindly return to this office at your earliest convenience.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

Enclosure

LGHouk:gad 3/15/54

Copy to: Admr. R. File
Docket File
Operating Committee
Field Team, Region VII
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

P.C.G.
3-17-54

File Copy
Surname:

Houk
Selfridge
Hedges
Guild
Hatfield

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

MAR 17 1954

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

Subject: Docket No. DMEA-3269 - Mica
W. H. Young
Iva Johnson Mine
Avery 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 March 5, 1954 and from the Bureau of Mines, dated March 9, 1954, are enclosed for your information.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (24B)

Approved:

J. H. Hedges (24B)
Member, Bureau of Mines

Philip W. Guild (24B)
Member, Geological Survey

Enclosures 4

LGHouk:gad 3/10/54
Copy to: Admr. R. File
Docket File
Operating Committee
Mr. Dietrich, 3061
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.C.G. 3-17-54

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

10 1954

March 9, 1954

Memorandum

To: Nonmetallic Minerals Division
Defense Minerals Exploration Administration

From: Chief, Ceramic and Fertilizer Materials Branch

Subject: DMEA-3269

Applicant: W. H. Young

Name and Location of Property: Iva Johnson Mine
Avery County, North Carolina

Application Rec'd by Ceramic & Fertilizer Mats. Branch: March 5, 1954

Comments:

1. No data are available in this office regarding a mine under the name "Iva Johnson."

2. Applicant estimated costs total $3,943.37.

3. Proposed exploration is for non-ruby mica and is consistent with good engineering practices.

4. Mine is located in an area of productive mica mines.

Recommendation:

It is suggested the field team examine this mine to ascertain if an exploration project is justified for exploration of non-ruby mica. If so, the field team and applicant should agree on a definite exploration plan.

W. F. Dietrich

W. F. Dietrich

IN REPLY REFER TO:

G-MD-CNM

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

Defense Minerals Administration
RECEIVED
MAR 8 - 1954

March 5, 1954

Memorandum

REVIEW OF APPLICATION DMEA-3269 (MICA)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. A. Brobst, U. S. Geological Survey
Applicant's name and address: W. H. Young, Box 25, Minneapolis, N.C.
Name of property: Iva Johnson Mine.
Location of property: Along Plumtree Creek Road about 1.5 airline miles due E. of Plumtree, Avery County, N. C. (Mine 32 in plate 1 in U.S.G.S. Bull. 936 A)
Summary of applicant's proposal:

1. Rehabilitate existing adit $750
2. Extend existing adit for 160 ft.)
3. Lateral drifts, not to exceed 100 ft.) . . $3943.37

Sources of information on applicant's property:
A file report by J. C. Olson dated Jan. 10, 1944 - 3 pages.

Comments:

1. It is not clear whether the $750 to rehabilitate the adit is already included in the total of $3943.37 or whether it is in addition to the latter sum.
2. Our records indicate that Colonial Mica Corporation purchased about $18,000 worth of mica from the operators of this mine.
3. Olson's report calls this another "Elk Mine" - thin, discontinuous lenses of peg - which means that any exploration is really mining. We are not eager to explore mines of this type.
4. Olson's report indicates that the best possibilities lie in N. 60 to 70° W. from the room in the Goodman Tunnel, but it is not clear on the application whether the applicant wishes to work at that place.
5. Because the mine has a good production record, the field team should judge this mine after they study the report and visit the property.

RECOMMENDATION:
Field examination.

D A Brobst
D. A. Brobst

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

Mr. W. H. Young
P. O. Box 25
Minneapolis, North Carolina

March 4, 1954
Subject: DMEA-3269
Re: Exploration Assistance
Iva Johnson Mine

Dear Sir:

The receipt of your application dated March for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3269 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-3269 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

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

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Defense Minerals Administration
RECEIVED
MAR 4 - 1954

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Budget Bureau No. 42-R1035.2.
RECEIVED
MAR 23 1954

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. 3269
Metal or Mineral Mica
Date Received
Estimated Cost $3,943
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: W. H. Young
Box 25
Minneapolis, North Carolina

(*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 See copy of lease attached and plat of land lines.

(*b*) State any mine name by which the property is known. Iva Johnson 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. See appendix

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

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

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

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

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

(*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 30 days and be completed within 6 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 _____, 195__

W. H. Young
(Applicant)

By _____

_____

_____

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

Department of the Interior
Defense Minerals Administration
RECEIVED
MAR 4 1954

APPENDIX

4.

(a) This mine and surrounding adits have been worked extensively. Most of the past workings are west of the Johnson works. The Johnson workings were last worked by D. W. Burleson during the Colonial Mica era. The adit is open and accessibility is good.

(b) Actual production during Colonial times is not known by me. Please consult Colonial records if available.

(c) Vein material is exposed from the entrance to the present face. A distance of about 60 feet. The vein is composed of flint, some feldspar, green mica and black mica. I wish to explore this mine for green mica and produce sufficient quantities for stockpiling purposes.

This mine and other old works are described and a map showing underground works included with the report. It is listed as the Johnson Mine, Avery County, N. C. Geology and topography by J. C. Olson, V. C. Fryklund and W. R. Griffiths, January 1944.

(d) Accessibility is good to the mine and can be reached from Plumtree, N. C. by a gravel road and a short farm road. A description of the location is shown on Olson's map. The mine is about 15 miles from Spruce Pine, N. C., which would be the shipping and supply points. My residence is 19 miles from the mine at Minneapolis, N. C.

(e) Sufficient manpower is available in the general area. Materials, supplies and equipment are available at Spruce Pine, N. C. Water is available from Squirrel Creek, a distance of about 100 feet. A single phase power line runs within 150 feet of the mine.

5.

(a) Mica

(b) Refer to the map showing underground workings by Olson. I am interested in extending the existing 60 foot adit for a distance of 160 feet. If promising vein material is picked up, I would like to drive lateral drifts not to exceed 100 feet.

(d) I have spent some time mining mica and feldspar during Colonial times. I plan to hire experienced miners, working under my supervision.

Continuation of 5 (b)

Some rehabilitatition of the existing adit will have to be done, and the costs would probably not exceed $750.00

6.

(a) None.

(b) Supervision:

1 Supervisor - 50 shifts @$2.00 per hour	-	$ 800.00	
Labor:			
1 driller - 50 shifts @$1.50 per hour	-	600.00	
2 muckers - 50 shifts @$1.00 per hour	-	800.00	
Total	-		$2200.00

(c)

Jack hammer	-	45.50	
Hose	-	8.07	
Drill Steel 2 pcs.	-	44.80	
Total			98.37

(d) Operating Equipment:

Air Compressor, 4 months rental @$188.00 per month	-	752.00	
Water pump, 4 months @$54.75 per month	-	219.00	
Hoist, 4 months @$81.00 per month	-	324.00	
Total			1395.00

(e) None

(f)

1 tool house, 10' x 15'	-	150.00	
Powder magazine	-	50.00	
Cap magazine	-	50.00	
Total			250.00
Grand total	-		$3943.37

(g) None.

(h) None

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 4 - 1954

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller, has an interest in certain property in the State of North Carolina, County of Avery, described as follows:1/

Beginning on a beach 115 ft from the mouth of the mine; then north 36 west 420 ft. to an iron stake; then north 54 east 200 ft. to an iron stake; then south 36 east 420 ft. to a sugar tree; then south 54 west 200 ft. to the beginning. This is known as the Iva Johnson mine containing two acres more or less.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ W. H. Young

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof, there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom, until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions

Dated this 3 day of March, 1954.

Iva Johnson [Seal]

Lela Johnson [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated March 2, 1954, and recorded in book 50 page 168 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of 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, as follows:

(a) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(b) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent 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) per cent 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 ($1\frac{1}{2}$) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) per cent.)

c. Definitions.--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 gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--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.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--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.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Avery, described as follows:1/

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which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ W. H. Young

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof, there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom, until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions

Dated this 3 day of March, 1954.

Iva Johnson [Seal]

Lela Johnson [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated March 2, 1954, and recorded in book 50 page 168 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

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d. Lien for Payment.--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.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--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.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 4 - 1954

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Avery, described as follows:1/

Beginning on a beach115 ft. from the mouth of the mine; then north 36 west 420 ft. to an iron stake; then north 54 east 200 ft. to an iron stake; then south 36 east 420 ft. to a sugar tree; then south 54 west 200 ft. to the beginning.

This is known as the Iva Johnson mine, containing two acres more or less.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ W. H. Young

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof, there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom, until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions

Dated this 3 day of March, 1954.

Iva Johnson [Seal]
Lela Johnson [Seal]
[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated March 2, 1954, and recorded in book 50 page 168 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of 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, as follows:

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

(b) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent 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) per cent 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) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

c. Definitions.--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 gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--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.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--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.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF T
Defense Minerals
RECEIVED
MAR 4 - 1954

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of North Carolina, County of Avery, described as follows:1/

Beginning on a beach 115 ft. from the mouth of the mine ; then north 36 west 420 ft. to an iron stake; then north 54 east 200 ft. to an iron stake; then south 36 east 420 ft. to a sugar tree; then south 54 west 200 ft. to the beginning.

This is known as the Iva Johnson mine, containing two acres more or less.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ W. H. Young

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof, there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom, until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions

Dated this 3 day of March, 1954.

Iva Johnson [Seal]

Lela Johnson [Seal]

[Seal]

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated March 2, 1954, and recorded in book 50 page 168 official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of 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, as follows:

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

(b) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent 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) per cent 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) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

c. Definitions.--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 gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--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.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--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.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

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which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ W. H. Young

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WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof, there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom, until said royalty is fully paid or ten years have elapsed from the date of the contract, whichever occurs first.

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4. Changes and added provisions

Dated this 3 day of March, 1954.

Iva Johnson [Seal]

Lela Johnson [Seal]

[Seal]

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Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

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f. No Obligation to Produce.--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.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

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Iva Johnson [Seal]

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c. Definitions.--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 gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--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.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--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.

North Carolina,

Avery County.

This Lease, made and entered into this the 20th day of February, 1954, by and between Iva Johnson and wife, Lela Johnson of Avery County, North Carolina, hereinafter called the Lessors, and P. L. Young and W. H. Young of said Avery County, North Carolina, hereinafter called the Lessees.

W I T N E S S E T H :

That the Lessors for and in consideration of the payment of One Dollar by the Lessees, the receipt of which is hereby acknowledged by the Lessors, and in further consideration of the covenants and agreements herein made by the Lessees, do by these presents grant unto the Lessees or their successors or assign, for a period of (5) Years from the date hereof, with the privilege of renewal on the same terms for a like period, notice of said renewal to be given by registered mail to the Lessors, the exclusive right and privileges to mine, search for and take from the following described real estate all mica found, said land being more particularly described as follows:

> Beginning on a beach 115 feet from the mouth of the mine; then north 36 west 420 ft to an iron stake; then north 54 east 200 feet to an iron stake; then south 36 east 420 feet to a sugartree; then south 54 west 200 feet to the beginning. Containing two acres more or less.
>
> This is known as the Iva Johnson mine, including Two Acres of land surrounding the mine, situated in Linville Township, on Squirrel Creek on what is known as the Lum Franklin tract of land and below the old mill site.

That the Lessors guarantee to the Lessees all the mining rights and privileges such as ingress, regress, and egress, wood, water, and other rights and privileges necessary for the successful operation of said mine upon and under said lands, hereby waiving any and all claims for damages to the above described lands.

That the Lessees agree to carry on said mining operations in a workmanlike manner and in a continious manner or as may be possible, that it

is understood that if the mining operations shall cease for a period of Ninety (90) Days that the Lessors, at their option, may declare this lease void and inoperative and shall thereon be entitled to the immediate possession of the same without further notice.

That the Lessees will pay to the Lessors as royalty Twelve (12%) of the price received by the Lessees for all mica sold from the property. It is agreed that this amount shall be paid from time to time as sales are made, and that the Lessees will furnish the Lessors with a full and complete statement of all sales made at the time of settlement.

In Witness Whereof, the parties hereto have subscribed their names and affixed their seals, the day and year first above written.

Ira Johnson (SEAL)
Lela Johnson (SEAL)
Lessors

P. L. Young (SEAL)
W. H. Young (SEAL)
Lessees

North Carolina,

Avery County.

I, Verna P. Watson, A Notary Public in and for the aforesaid State and County, do hereby certify that Iva Johnson and wife, Lela Johnson, Lessors, and P. L. Young and W. H. Young, Lessees, personally appeared before me this day and acknowledge the due execution of the foregoing instrument in writing for the purposes therein expressed.

Witness my hand and Notarial Seal, this the 23 day of February , 1954.

Verna P. Watson
Notary Public

My Commission expires on the
13 day of April , 1955.

STATE OF NORTH CAROLINA, AVERY COUNTY

The foregoing certificate of Verna P. Watson Notary Public of Avery County, State of N. C. and his official seal, is adjudged to be correct. Let the said instrument and the certificate be registered.

This 2 day of March 1954
Ersla C. Pittman
Dep. Clerk of Superior Court.

NORTH CAROLINA
AVERY COUNTY
OFFICE OF REGISTER OF DEEDS

Filed for registration at 2 o'clock P. M. on the 2 day of March 1954, and duly recorded in the office in Book 50 of page 168 this the 2 day of March 1954
Grant Webb

COPY

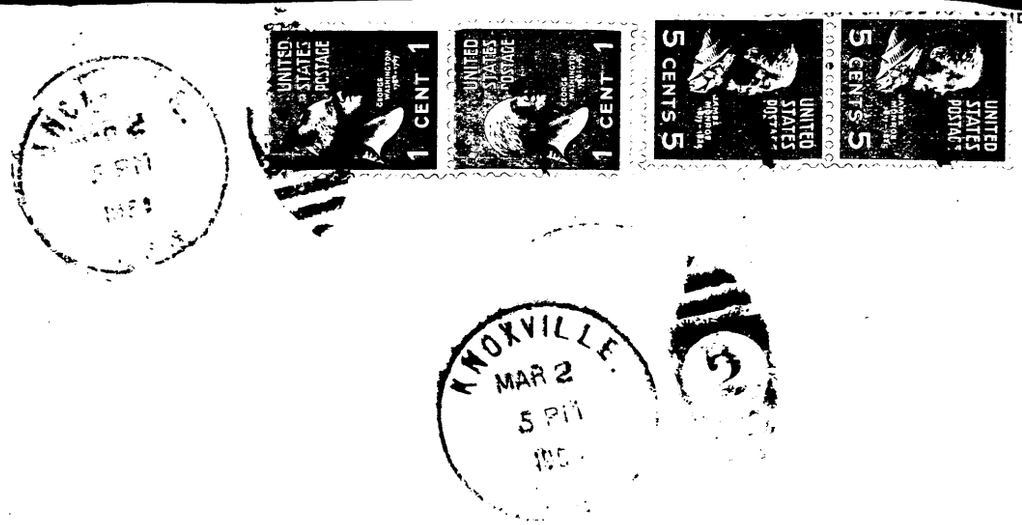
CHARLES HUGHES
Attorney At Law
NEWLAND, N. C.

Tuttle Gray Print, Publishers, Rutland, Vt.

MAR 4 - 1954

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

OFFICIAL BUSINESS



Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Dept. of the Interior
Washington 25, D. C.

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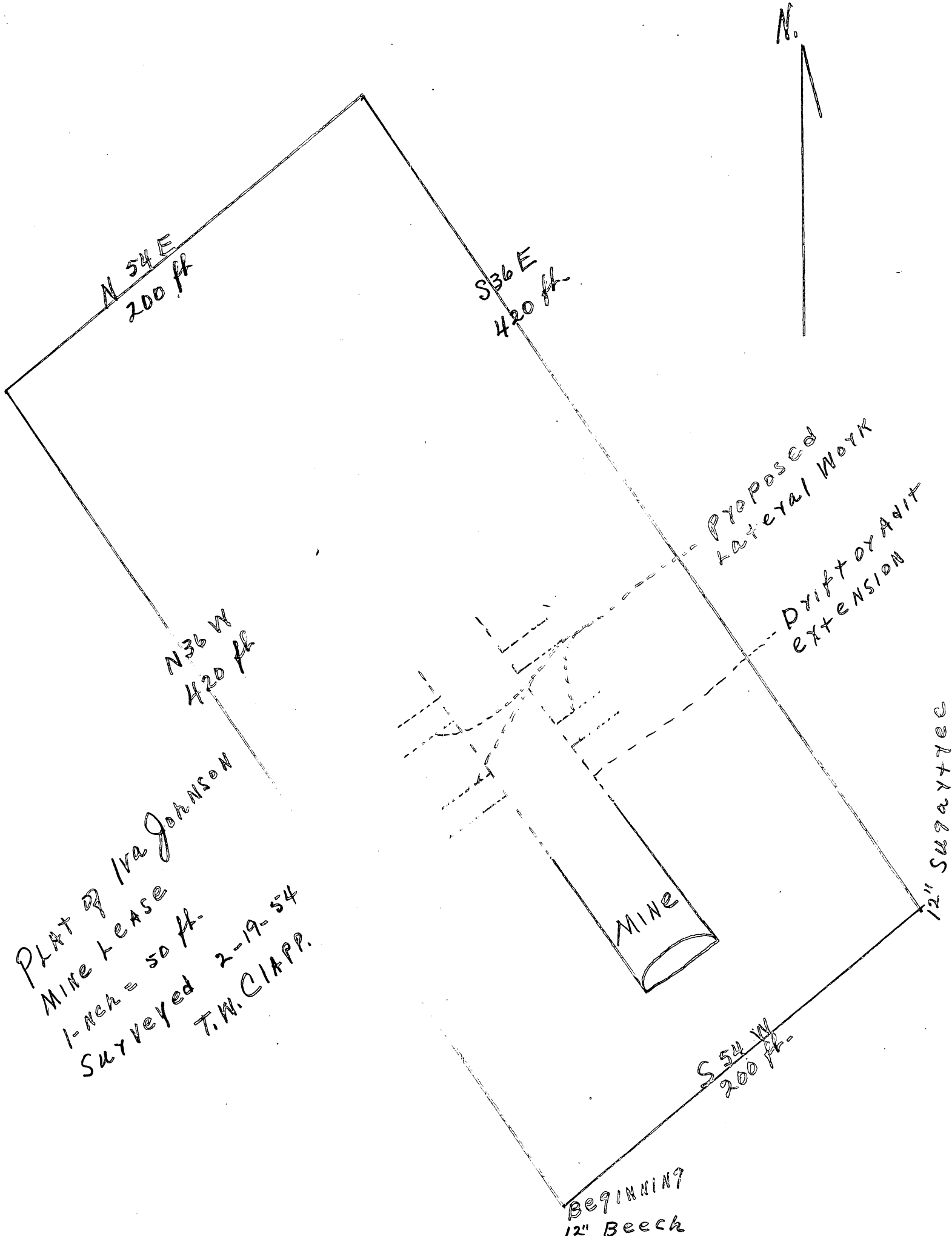
N.
N 54 E
200 ft
S36 E
420 ft.
Proposed
Lateral Work
Drift or Adit
extension
N36 W
420 ft
Plat of Iva Johnson
Mine Lease
1-inch = 50 ft.
Surveyed 2-19-54
T.W. Clapp.
Mine
12" Sugar tree
S 54 W
200 ft.
Beginning
12" Beech