m 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 1577-X

To: Reports and Records Branch

From: Manganese Branch

Date: July 9, 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to Admin. Manganese Branch

Type of request changed to:

Denied ☒ 7/9/51 Withdrawn ☐

Approved in amount of $

Other action, specify:

OFFICE OF THE DIRECTOR

DMA

1577 X

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

October 9, 1951

Hon. Harry F. Byrd
United States Senate
Washington 25, D. C.

Dear Senator Byrd:

I have your letter of September 11 in behalf of Mr. Lewis Jarus whose communication to you was enclosed.

In considering applications for exploration loans, the Strategic Minerals Administration makes use of previous reports made by the Bureau of Mines and the Geological Survey to determine whether the area is geologically favorable. In the case of Mr. Jarus' application, it was found that this area had been investigated previously and it was believed that further exploration was unwarranted. I am sure you will agree that to approve such an application would result in a waste of public and private funds in carrying out an exploration project.

The reports of previous investigations in this area are available in the Bureau of Mines files and the staff would be pleased to discuss this at any time with Mr. Jarus if he wishes to do so.

I am returning the letter from Mr. Jarus for your files.

With best regards, I am

Sincerely yours,

JAMES BOYD

Director

Enclosure

NBMelcher:lds
Copy to: H. P. Greenwald, Reg. Dir., Region VIII
Dir. reading file
Mr. Holderer
Mr. Moon
Mr. Ridgway
Mr. Melcher
Files

COPY

LARUS & BROTHER COMPANY, I[illegible]
Established 1877
Tobacco Manufacturers
Richmond 17, Virginia, U.S.A.

September 7, 1951

Hon. Harry F. Byrd
United States Senate
Washington, D. C.

Dear Senator:

I am writing you and Willis Robertson with reference to the Laynesville tract, a parcel of land containing approximately 1344 acres, located in Nelson County, Virginia near Warminster, owned by my late brother, Charles D. Larus, Jr., at the time of his death in February 1946.

This property is known to contain manganese deposits of good quality. During World War I the Japanese government was negotiating a purchase of the property at a price of $50,000; however, the end of the war caused the termination of their interest.

We have expended considerable amounts of money in geologic surveys and are informed that the ore is of high grade and readily accessible, being found at shallow depths in decomposed sandstone or clays.

Being aware of the strategic importance of manganese at the present time, we enlisted the assistance of Mr. John E. Kelly, a consultant in natural resources, 316 Southern Building, Washington, D. C., who has made a thorough investigation of the property, including all surveys made over a period of years, and with Mr. Kelly's assistance we filed an application for assistance under the Defense Production Act of 1950 with Defense Minerals Administration on June 1, 1951. This application was denied without investigation, with the comment that the general area had been investigated during World War II, and that further exploration would not be considered profitable.

I have read an announcement of July 9 that Defense Minerals Administration had granted 47 mineral exploration loans totalling more than $3,700,000 in 14 states, all of which were west of the Mississippi River. My nephew, Charles Larus III, read in the local papers recently that the government has been buying manganese of inferior quality from some location in New England. I believe that the mineral resources of Virginia are being given unfair and insufficient attention in a period of national emergency, and I would consider it a personal favor if you would inquire into this matter on behalf of the estate, of which I am a co-executor and co-trustee. There are enclosed herewith copies of our recent communications from this Agency.

With warm regards, I am

Sincerely your friend,

/s/ Lewis

L.G.Larus/ms

340

FILE COPY
SURNAME:

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

Holderer
for
Schroeder

August 6, 1951

Hon. J. Vaughan Gary
House of Representatives
Washington 25, D. C.

In reply please refer to
DMA ~~385~~ 1577 x

My dear Mr. Gary:

Your letter of June 25, addressed to Mr. Herman W. Foy, Assistant Administrator for Metals and Minerals of the National Production Authority, in reference to a letter to you from Mr. William B. Jacobs, Vice President of the Central National Bank in Richmond, concerning a deposit of manganese in Nelson County, Virginia, has been referred to us for attention.

Enclosed is a copy of the letter to the applicant giving the reason for denial of the application.

A good deal of time and money has already been spent by the Government in that area searching for workable manganese deposits, with disappointing results. Our engineers are of the opinion that further exploration would not be profitable either to the applicant or the Government.

Sincerely,

W. C. SCHROEDER
Administrator

8/8
cc

Enclosure

GBHolderer:bl 8/6/51

CC: Adm. Reading File
Reports & Records Unit
Dep. Adm., Rm. 4617
Mr. Holderer
Files

COPY

DEPARTMENT OF COMMERCE
National Production Authority
Washington, 25

June 25, 1951

Dr. James Boyd
Administrator
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Dr. Boyd:

The attached letter from Congressman Gary, together with enclosure is being referred to you for disposition. We are also enclosing a copy of our letter dated today, which is self explanatory.

Yours very truly,

/s/ Norman W. Foy

Norman W. Foy
Assistant Administrator
for Metals and Minerals

Attachments

COPY

DEPARTMENT OF COMMERCE
National Production Authority
Washington 25

June 25, 1951

The Honorable
J. Vaughan Gary
House of Representatives
Washington 25, D. C.

Dear Congressman Gary:

We have referred your letter dated June 20, 1951, together with a copy of the letter from the Vice President and Trust Officer of The Central National Bank of Richmond, dated June 19, 1951, to Dr. James Boyd, Administrator, Defense Minerals Administration, Department of Interior. Dr. Boyd has been requested to advise you directly of the progress being made with reference to the application for financial assastance referred to in your constituent's letter.

If we can be of any further assistance, please communicate with us.

Yours very truly,

Norman W. Foy
Assistant Administrator
for Metals and Minerals

COPY

CONGRESS OF THE UNITED STATES
House of Representatives

June 20, 1951

Mr. Norman W, Foy,
Assistant Administrator,
Metals and Minerals Bureau,
National Production Authority,
Wahsington, D. C.

Dear Mr. Foy:

I venture to transmit a letter from the Vice President and Trust Officer of one of the larger Virginia banks, which is self-explanatory.

I would very much appreciate it if you would inform me as to the progress of the request described in the enclosure.

Awaiting your advices, with the return of my constituent's letter, I am,

Sincerely yours,

/s/ J. Vaughan Gary

COPY

THE CENTRAL NATIONAL BANK
OF RICHMOND
Broad at Third St.
Richmond 15, Va.

June 19, 1951

Honerable J. Vaughan Gary
House of Representatives
Washington, D. C.

RE: Estate of Charles D. Larus, Jr., Deceased

Dear Mr. Gary:

Our decedent, Charles D. Larus, Jr., a prominent Richmond tobacco executive, died in February 1946, and at the time of his death owned a tract of property in Nelson County, Virginia, containing manganese deposits.

We have made several surveys of the property and believe that sufficiently important deposits are present to make it commercially attractive to develop the property. The estate is not financially able to spend any substantial amount of money on exploration work, and on Junel, 1951, we applied to Defense Minerals Administration, Washington, D. C. for financial assistance under Mineral Order 5 of the Defense Production Act of 1950.

Manganese is in short supply and is of strategic importance, and we desire to be of every possible assistance in the national defense effort, as well as to obtain the maximum income from the property for our beneficiaries.

We have received no acknowledgment of the filing of the application although we requested that an acknowledgment be forthcoming, and we would greatly appreciate any assistance which you might be able to give us in obtaining prompt consideration of this application.

Cordially yours,

/s/ W. B. Jacobs
Vice President and Trust Officer.

WBJ/LR

COPY

July 9, 1951

Estate of Charles D. Larus, Jr., Deceased
Central National Bank of Richmond, Co-Executor
Richmond, Virginia

Re: DMA - 1577X Manganese
Nelson County, Virginia

Gentlemen:

Your application for aid for an exploration project under the Defense Production Act of 1950, at an estimated cost of $40,000, has been carefully considered. The James River - Roanoke River district was the subject of intense geological mapping and some drilling by the Bureau of Mines during World War II, which indicated the presence of very little commercial manganese mineralization. For that reason, it is believed that further exploration of the area would not be profitable. Your application is therefore denied.

Very truly yours,

/s/ Tom Lyon

Tom Lyon
Director, Supply Division

FILE COPY
SURNAME:

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

Selfridge for Holderer
Hanson

July 9, 1951

Estate of Charles D. Larus, Jr., Deceased
Central National Bank of Richmond, Co-Executor
Richmond, Virginia

Re: DMA - 1577X Manganese
Nelson County, Virginia

Gentlemen:

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Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

FWHanson:bl

CC: Adm. Reading File
Reports and Records Unit
Mr. Holderer
Field Team - Region VIII
Files

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

July 9, 1951

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Manganese Branch

Subject: DMA - 1577X Manganese
Nelson County, Virginia

This application requests a loan of $40,000.00 (Government share $30,000.00) to explore a manganese property known as the Laynesville or Piedmont in the James River district.

The James River - Roanoke River district was the subject of intense geological mapping and some drilling by the Bureau of Mines during World War II which indicated the presence of very little commercial manganese mineralization. As a result it is believed unprofitable to carry on further exploration of the area.

Application rejected.

George C. Selfridge
for
George B. Holderer
Chief, Manganese Branch

Approved:

Tom Lyon
Director, Supply Division

FILE COPY
SURNAME:

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

Selfridge for Co B H.
Hanson

July 9, 1951

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Manganese Branch

Subject: DMA - 1577X Manganese
Nelson County, Virginia

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The James River - Roanoke River district was the subject of intense geological mapping and some drilling by the Bureau of Mines during World War II which indicated the presence of very little commercial manganese mineralization. As a result it is believed unprofitable to carry on further exploration of the area.

Application rejected.

George B. Holderer
Chief, Manganese Branch

Approved:

Tom Lyon

Director, Supply Division

FWHanson:bl

CC: Adm. Reading File
Reports and Records Unit
Mr. Holderer
Field Team - Region VIII
Files

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. George Holderer DATE: July 3, 1951

FROM : DMA 1577-X

SUBJECT:

The above application requests a loan of $40,000 to explore a manganese property known as the Laynesville or Piedmont in the James River district, Nelson County, Virginia. It is recommended that the above application be rejected because there is very small chance that the proposed exploration could result in sufficient manganese to repay the loan involved.

The James River-Roanoke River district was the subject of intense geological mapping and some drilling by the Bureau of Mines during World War II. Inspite of this and intensive activity of mine operations only about 1,000 tons of ore were produced. A loan of the size proposed would require about 15,000 tons production to repay the Government's share.

The above information, in watered-down form, could serve as a basis of a letter to the applicant.

Max O. Pittenden Jr.

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

JUN 29 1951
Received by Mr. Holden

REFERENCE SLIP

DATE JUN 29 1951

REFERRED TO:

1. Holden R3624
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	✓ Referring to .....
..... Conference	..... Reply for signature of Dompt
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: .....

Check (X) before the items needing attention.

HB
LANDON F. STROBEL
Initials of sender.

GPO 16—63815-1

Mr. March
Copy Contents

DEPARTMENT OF COMMERCE
NATIONAL PRODUCTION AUTHORITY
WASHINGTON 25

DMA-1577x
answered by
Mr. Frederer
6 Aug 51

June 25, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 29 1951
LANDON F. STROBEL
Executive Secretary

Dr. James Boyd
Administrator
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Dr. Boyd:

The attached letter from Congressman Gary, together with enclosure is being referred to you for disposition. We are also enclosing a copy of our letter dated today, which is self explanatory.

Yours very truly,

Norman W. Foy
Assistant Administrator
for Metals and Minerals

Attachments

DEPARTMENT OF COMMERCE
NATIONAL PRODUCTION AUTHORITY
WASHINGTON 25

June 25, 1951

The Honorable
J. Vaughan Gary
House of Representatives
Washington 25, D. C.

Dear Congressman Gary:

We have referred your letter dated June 20, 1951, together with a copy of the letter from the Vice President and Trust Officer of The Central National Bank of Richmond, dated June 19, 1951, to Dr. James Boyd, Administrator, Defense Minerals Administration, Department of Interior. Dr. Boyd has been requested to advise you directly of the progress being made with reference to the application for financial assistance referred to in your constituent's letter.

If we can be of any further assistance, please communicate with us.

Yours very truly,

Norman W. Foy
Assistant Administrator
for Metals and Minerals

cc: Dr. James Boyd

J. VAUGHAN GARY
3D DISTRICT, VIRGINIA

COMMITTEE ON
APPROPRIATIONS

2-50
Foy

PAUL SAUNIER, JR.
SECRETARY

Congress of the United States
House of Representatives
Washington, D. C.

June 20, 1951

Mr. Norman W. Foy,
Assistant Administrator,
Metals and Minerals Bureau,
National Production Authority,
Washington, D. C.

Dear Mr. Foy:

I venture to transmit a letter from the Vice President and Trust Officer of one of the larger Virginia banks, which is self-explanatory.

I would very much appreciate it if you would inform me as to the progress of the request described in the enclosure.

Awaiting your advices, with the return of my constituent's letter, I am,

Sincerely yours,

Vaughan Gary

SPECIAL
Reply to routed to
Correspondence Unit
mailing

4-18435

THE CENTRAL NATIONAL BANK
OF RICHMOND
Broad at Third St.
Richmond 15, Va.

C O P Y

June 19, 1951

Honorable J. Vaughan Gary
House of Representatives
Washington, D. C.

RE: Estate of Charles D. Larus, Jr., Deceased

Dear Mr. Gary:

Our decedent, Charles D. Larus, Jr., a prominent Richmond tobacco executive, died in February 1946, and at the time of his death owned a tract of property in Nelson County, Virginia, containing manganese deposits.

We have made several surveys of the property and believe that sufficiently important deposits are present to make it commercially attractive to develop the property. The estate is not financially able to spend any substantial amount of money on exploration work, and on June 1, 1951, we applied to Defense Minerals Administration, Washington, D. C. for financial assistance under Mineral Order 5 of the Defense Production Act of 1950.

Manganese is in short supply and is of strategic importance, and we desire to be of every possible assistance in the national defense effort, as well as to obtain the maximum income from the property for our beneficiaries.

We have received no acknowledgment of the filing of the application although we requested that an acknowledgment be forthcoming, and we would greatly appreciate any assistance which you might be able to give us in obtaining prompt consideration of this application.

Cordially yours,

/s/ W. B. Jacobs
Vice President and Trust Officer.

WBJ/IR

July 9, 1951

Estate of Charles D. Larus, Jr., Deceased
Central National Bank of Richmond, Co-Executor
Richmond, Virginia

Re: DPA - 15774 Manganese
Nelson County, Virginia

Gentlemen:

Your application for aid for an exploration project under the Defense Production Act of 1950, at an estimated cost of $40,000, has been carefully considered. The James River - Roanoke River district was the subject of intense geological mapping and some drilling by the Bureau of Mines during World War II, which indicated the presence of very little commercial manganese mineralization. For that reason, it is believed that further exploration of the area would not be profitable. Your application is therefore denied.

Very truly yours,

Tom Lyon
Tom Lyon
Director, Supply Division

FWHanson:bl

CC: Adm. Reading File
Reports and Records Unit
Mr. Holderer
Field Team - Region VIII
Files

Mr. March
Copy Attached

DEPARTMENT OF COMMERCE
NATIONAL PRODUCTION AUTHORITY
WASHINGTON 25

June 25, 1951

6/29/51
Holdover
Reply Boyd

Dr. James Boyd
Administrator
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Dr. Boyd:

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Yours very truly,

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Assistant Administrator
for Metals and Minerals

Attachments

DEPARTMENT OF COMMERCE

NATIONAL PRODUCTION AUTHORITY

WASHINGTON 25

June 25, 1951

The Honorable
J. [illegible]
House of [illegible]
[illegible], D. C.

[illegible] rable [illegible]:

[illegible] have referred [illegible]
[illegible], together with a copy [illegible] the letter [illegible]
[illegible] and [illegible] Officer of [illegible]
of [illegible], [illegible], to Mr. [illegible],
[illegible], [illegible]
[illegible]. Mr. [illegible]
[illegible] the pro[illegible]
[illegible] for [illegible]
[illegible] letter.

If [illegible] c [illegible]
[illegible].

[illegible] truly,

[illegible] Boy
[illegible] Administrator
for Metals and Minerals

cc: Mr. J[illegible] oyd

J. VAUGHAN GARY
3D DISTRICT, VIRGINIA

COMMITTEE ON
APPROPRIATIONS

PAUL SAUNIER, JR.
SECRETARY

Congress of the United States
House of Representatives
Washington, D. C.

June 20, 1951

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Sincerely yours,

SPECIAL
routed to
Correspondence Unit
Mailing

4-18435

THE CENTRAL NATIONAL BANK
OF RICHMOND
Broad at Third St.
Richmond 15, Va.

C O P Y

June 19, 1951

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House of Representatives
Washington, D. C.

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Manganese is in short supply and is of strategic importance, and we desire to be of every possible assistance in the national defense effort, as well as to obtain the maximum income from the property for our beneficiaries.

We have received no acknowledgment of the filing of the application although we requested that an acknowledgment be forthcoming, and we would greatly appreciate any assistance which you might be able to give us in obtaining prompt consideration of this application.

Cordially yours,

/s/ W. B. Jacobs
Vice President and Trust Officer.

WBJ/LR

FILE COPY
SURNAME:

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

June 19, 1951

Central National Bank of Richmond
Richmond, Virginia

Subject: DMA-1577X
Re: Exploration loan
Laynesville Property

Gentlemen:

Receipt is acknowledged of your application and attachments of May 16, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1577X and was referred to Mr. George Holderer, Chief, Manganese Branch on June 8, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1577X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:Jeb
cc: Strobel-2
>Files
Holderer
Lyon

June 19, 1951

Estate of:
Charles D. Lanier Deceased

Central National Bank of Richmond
Richmond, Virginia

Subject: DMA-1577X
Re: Exploration loan
Laymesville Property

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Receipt is acknowledged of your application and attachments of May 16, 1951 for an exploration loan under the Defense Production Act of 1950.

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In any future correspondence relating to your application, kindly refer to DMA-1577X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:Jeb
cc:>Strobel-2
Files
Holderer
Lyon

LANDON F. STROBEL

GENERAL SERVICES ADMINISTRATION

Emergency Procurement Service
Washington 25, D. C.

1-19-51
Bradley

JAN 15 1951

Dr. James A. Boyd
Administrator
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Dr. Boyd:

Enclosed herewith is letter dated December 15, 1950, from the Central National Bank, Richmond, Virginia, which requests the exploration and development of manganese property owned by one of its trust accounts in Nelson County, Virginia.

This letter is forwarded as a matter under the jurisdiction of your Administration under Public Law 774, "Defense Production Act of 1950".

Very truly yours,

A. J. Walsh
Acting Commissioner

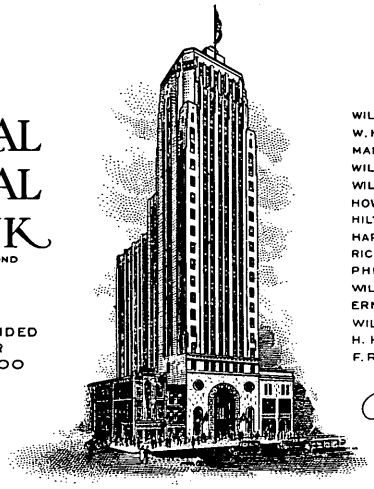
Enclosure

RESTRICTED

1597-X

THE CENTRAL NATIONAL BANK
OF RICHMOND

CAPITAL
SURPLUS & UNDIVIDED
PROFITS OVER
$4,500,000.00



WILLIAM H. SCHWARZSCHILD, CHAIRMAN OF THE BOARD
W. HARRY SCHWARZSCHILD, JR., PRESIDENT
MARVIN L. PRESSON, VICE-PRESIDENT & CASHIER
WILLIAM H. METZGER, VICE-PRESIDENT
WILLIAM B. JACOBS, VICE-PRESIDENT & TRUST OFFICER
HOWARD E. GILL, VICE-PRESIDENT
HILTON J. HERRMANN, ASSISTANT VICE-PRESIDENT
HARVEY C. HIGGERSON, COMPTROLLER
RICHARD I. SCHWARZSCHILD, ASSISTANT CASHIER
PHILIP A. WILHITE, ASSISTANT CASHIER
WILLIAM L. WAY, ASSISTANT CASHIER
ERNEST H. COPPLE, ASSISTANT TRUST OFFICER
WILLIAM L. NICHOLS, ASSISTANT TRUST OFFICER
H. HILL SANDIDGE, JR., ASSISTANT CASHIER
F. RICHIE WARNER, ASSISTANT CASHIER

BROAD AT THIRD ST.
RICHMOND 15, VA.

June 1, 1951

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

RE: Estate of Charles D. Larus, Jr., Deceased

Gentlemen:

We are enclosing herewith in quadruplicate an application on Forms MF-100 and MF-103 for financial aid for an exploration project pursuant to Mineral Order 5, under Defense Production Act of 1950 on property owned by the above estate located in Nelson County Virginia, containing manganese deposits.

Your prompt consideration of this application will be greatly appreciated, and we would thank you to acknowledge its receipt by signing and returning the enclosed copy of this letter.

Very truly yours,

Vice President and Trust Officer.

WBJ/LR
encs-

REGISTERED MAIL
RETURN RECEIPT REQUESTED

DEPARTMENT OF THE INTERIOR
Defense
JUN 4 - 1951
Executive Secretary

THE CENTRAL NATIONAL BANK

RICHMOND, VIRGINIA

COPY

June 1, 1951

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

RE: Estate of Charles D. Larus, Jr., Deceased

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Vice President and Trust Officer.

WBJ/LR
encs-

REGISTERED MAIL
RETURN RECEIPT REQUESTED

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Form MF-100
(March 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dmal 15797X

Date received 6-4-51

ESTATE OF CHARLES D. LARUS, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Estate of Charles D. Larus, Jr., (deceased), Central National Bank of Richmond, Co-Executor							
Mr. W. B. Jacobs, V. Pres. & Trust Officer, Richmond, Va.							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	As far as can be ascertained, the Piedmont (Laynesville) and adjoining mines under the same ownership at that time, produced 5,000 tons of high grade (82.5%) manganese peroxide, shipped to England in 1868-71. The Cabell, Piedmont, Bugley, Simpson and Davis mines, close to one another, are said to have shipped 18,000 tons of washed ore.				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Estimated production at rate of 100 tons daily.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. Please see answer to Question 7 hereof, and accompanying papers.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved) None measured at the present time. Object of testing is to locate such reserves and prepare estimates.					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Estate of Charles D. Larus, Jr. (deceased)
The Central National Bank of Richmond,
Co-Executor
(Name of company)

By W. Jacobs
(Signature of authorized official)

May 16, 1951
(Date)

Vice President and Trust Officer.
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Sheet Number 1, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Answers to Questions:

1. Materials produced. (a) This is an application to explore old workings and undeveloped acreage for manganese.

   (b) None.

2. Known as the Laynesville property. Formerly known as the Piedmont Mine. Mining consisted of open pits and quarrying. Testing will be by drilling and some test pits and drifting.

   (a) Linear feet of sharts (old workings, as far as known) approximately 400 feet (see report of Dr. Marshall Haney herewith).
   (b) Linear feet of drifts and crosscuts: approximately 250 feet.
   (c) Included with (b).
   (d) Many test pits on the property, dug between 1870 and 1919.

   The water table on this property stood at about 100 feet below the surface during the previous operations. The open pits, including a very large one on the adjoining Cabell mine, are not flooded. In some of the shafts water stands within fifteen feet of the collars but the flow is not known. Water conditions would not affect drilling. The property occupies the crest of a low ridge and water would prove no serious problem to modern mining.

   Size of productive capacity cannot be known prior to the testing subject of this application, but the reported former production of the adjoining Cabell open pit property (with which the production of the Laynesville-Piedmont mine is lumped according to Dr. Haney) of 100 tons of washed ore daily would be the minimum desiratum.

3. (a) Nearest village (crossroads settlement) is Warminster, 1.5 miles south of the mine. Warminster is a station on the James River division of the Chesapeake & Ohio Railway. The mine lies about 50 miles south of Charlottesville and 47 miles northeast of Lynchburg, Virginia. The Nelson County seat is Lovingstone, on U. S. 29 (Lynchburg to Washington), 13 miles from the mine.

   (b) and (c) Mining District, Section and Range are not used in Virginia.

   (d) Nelson County, Virginia.

4. (a) Property is not in operation.

   (b) If manganese is found in commercial deposits, property would be leased or sold to an experienced mining company.

5. Records indicate that the mine was in development or operation in 1868-71, 1887-88, and again in 1916-17. As stated in 2(d) above, production from this property was probably consolidated with that from the adjoining Cabell Mine.

Given the open pit nature of the deposit, production could start within six months of commencement of work.

6. General business experience of the applicant. The Larus Estate is managed by the Central National Bank of Richmond. It is anticipated that if the loan herein appoied for is granted, the testing will be directed by an experienced mining engineer such as Dr. Marshall Haney of Takoma Park, Maryland (see Who's Who in Engineering), under the general supervision of John E. Kelly, Consultant in Natural Resources, Washington 5, D. C. (see Who's Who in Commerce & Industry, Vol. 6; Who's Who in the East, Vol. 2, etc.)

7. (a, b, c.) History of the property, as known to the applicant, is contained in the following accounts hereto attached:

Preliminary report by Dr. Marshall Haney
Excerpt from "Mineral Resources of Virginia"
Excerpt from "Geology and Mineral Deposits of the James-River-Roanoke River Manganese District"
Excerpt from "Mineral Resources of the United States"
Records at the Nelson County Courthouse show that the late Charles D. Larus, Jr., acquired the property in Nelson County, Virginia, known as the Laynesville Tract, containing approximately 1,344 acres, on July 6, 1914.

On May 12, 1916, Mr. Larus entered into a lease with J. G. Hancock of Chicago, Illinois, said lease setting forth that the lessee was to explore, develop and mine the manganese deposits in the property. During the First World War, Mr. Larus negotiated a sale of the property to the Japanese Government, then an ally seeking manganese. It is understood that the price was $50,000, but apparently the Armistice prevented consummation of the transaction.

Dr. Haney remembers seeing an exhaustive report made in the 1920's by Mr. Kirby Thomas on this property, but no copy of this has been unearthed to date. Mr. Thomas was a leading mining engineer, established in New York, who died about 1932.

13. Access Roads. Access to the mineralized zone from the county road (water-bound macadam, oiled, now being improved and regraded) is from 3/4 to 2.0 miles, depending on the point of departure. From the county road old timber and mining roads lead through a lightly wooded area (tree diameter rarely over ten inches) to the sites of the mines and prospect pits. These could be opened with little effort by an axeman and would suffice in dry weather for the use of drilling crews testing the property.

14. All reports speak of abundant water. Water for drilling could be pumped from one of the old shafts reported by Dr. Haney, from an all-year creek, from a large spring reported by Dr. Espenshade, or by drilling a water well 100 to 150 feet in depth to tap the water table.

15. Drilling would be powered by gasoline.

Sheet No. 3, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

16. In addition to drilling crews (2 shifts, totalling 16 hours daily), 4 miners, 4 muckers, 2 general handymen, 1 waterboy and 1 foreman would carry on the exploration, under the direction of a mining engineer. The drilling would be contracted, contractor to furnish and pay his crews.

17. Equipment and facilities presently available: None.

18. No.

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

PRELIMINARY REPORT* ON THE MANGANESE RESOURCES OF THE LAYNESVILLE TRACT IN NELSON COUNTY, VIRGINIA

By

Marshall Haney
Mining Engineer
Geer, Virginia

Location

This property consisting of 1457 acres is located in the southeast portion of Nelson County, Virginia, and about two miles from Warminster, a station on the James River Division of the C. & O. R. R. which is about 100 miles from Richmond, Va. and 47 miles from Lynchburg, Va. The shipping facilities are ideal. The haul from the mines would be all downgrade to the railroad and the ore could be hauled over the earth road by trucks or by a wire rope tramway to storage bins on the railroad.

The C. & O. R. R. gives direct connections with tidewater at Newport News, Va. and rail connections north and south at Richmond, Va., North and south connections over the Southern Railway at Lynchburg, Va., and east and west connections over the N. & W. R. R.

The C. & O. R. R. forms a direct connection with the furnaces located along the Ohio and Mississippi Rivers which consume large quantities of manganese ore.

General Geology

The surface of the property rises from the James River and at the highest point reaches an elevation of about 250 feet.

This property is in the manganese ore bearing formation which is known as the James River belt and extends in a northeasterly direction from Pittsylvania County to Albemarle County and includes portions of Bedford, Campbell, Amherst, Appomattox, Nelson and Buckingham Counties.

The country rock is exposed along north side of the property, on the southwest portion it is a decomposed micacreous sandstone and on the northeast end it is decomposed granite. The ore bearing formation on this property is two miles long.

History

This property joins the Cabell Manganese Mine and is near the Simpson, Bugley and Davis mines, all of these mines are on the same ore bearing formation.

Mining started in this vicinity in the '80's. The geological survey literature states that the above named mines produced about 18,000 tons of high

* Dated 1932

grade manganese ore. The Cabell mine produced 5,000 tons which was shipped to England. I have been unable to find a record of the production from Laynesville, and I am of the opinion that the Laynesville production was listed with the Cabell production as the Cabell and Laynesville at that period was owned by the same party and in all probability a large part of the Cabell production was mined on what is known at this time as the Laynesville property.

The early operators confined their efforts to the ore located near the surface, most of their work was open cuts.

During the early '80's a group of English capitalists made plans to develop this property. They built a steam power plant and a shaft was sunk to the depth of 150 feet and when ready for production an accident happened which killed several men. This caused a temporary shut down which was followed by unfavorable market conditions resulting in a permanent stoppage of work.

Starting in at a point near the Cabell mine and going in a northeast direction along the line of the strike of the ore bearing formation we come to the old workings in the following order: Shaft 70 feet deep, now caved except first 15 feet in which some small seams are exposed. Shaft 150 feet, about 20 feet at surface open. Shaft 40 feet, about 10 feet at surface open. Shallow shaft connected with a shaft tunnel, some ore near mouth of tunnel. A shaft of unknown depth, but from the amount of material on the dumps I am of the opinion that it must be over 100 feet. The upper 15 feet is caved, the remaining portion is under water, and the first class timbers appear to be perfectly preserved.

Portal of a caved tunnel 150 feet long driven in the ridge.

The last named work is one and one-fourth miles from the Cabell line and the remaining three-fourth mile on Laynesville is without development.

Mr. A. C. Horsley, of Warminster, who showed me over the property told me that some years ago he picked enough ore from the old dumps to ship some eight or ten cars of ore, this being the second picking over the dump. Another party picked over them when he was quite a young man.

Analyses of Ore

Manganese (metallic)	38.89
Iron	5.61
Silica	15.81
Phosphorous	.013
Sulphur	.015

The above analyses is an average secured from the old dumps. In view of the fact that these dumps have been picked over and the best ore shipped on two previous occasions, I think it would be fair to say that the above analyses represents the third grade ore, and I am of the opinion that the better grade of ore will run 50% or more in metallic manganese and correspondingly lower in impurities which would put it in the class of extra good ore.

Due to the caved conditions of the old workings I was unable to get in them and get a sample of the best ore.

Conclusion

This property in its present physical condition can not be classed as a proven mine but an extra good prospect worthy of exploration.

I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies.

Last year (1931) in about four months time I completed 130 feet of shaft and drift work, timbered in a first class manner, and 70 feet of open pit work at a cost of $2,000.00. I am giving these figures for comparison.

I am of the opinion that the same work on this property could be done for less, due to the fact that conditions are more favorable in mining, labor and dupplies.

The chance element would be 8 to 2 in favor of locating commercial ore bodies providing the work is given proper technical supervision.

/s/ Marshall Haney
Marshall Haney
Certified Mining Engineer
Virginia Certificate No. 1

Geer, Virginia
January 28, 1932

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of Virginia", prepared for the Virginia Jamestown Exposition Commission by Dr. Thomas Leonard Watson, Professor of Economic Geology in the University of Virginia.

"In the past years, several deposits of manganese ores have been somewhat extensively marked in Nelson County, although the ore is not mined to the writer's knowledge at any point in the county at present. (1907) The ore occurs in the Southeastern portion of the County, located about 2 miles north of the James River, in the vicinity of Warminster and Midway Mills, stations on the Chesapeake & Ohio Railway. The occurrence of ores is in the form of pockets in the residual clays of the crystalline schists. Four mines have produced considerable ore. These are the Cabell, Bugley, Simpson and Davis. The Cabell mine, located within 2 miles of Warminster, has not been worked since 1871. (Was worked again after date of this book.) In 1868 and 1869, 5,000 tons of ore were mined and shipped to Newcastle-on-Tyne. A reported analysis of this ore shows 82.25% of manganese peroxide. Two other analyses of ore from this mine are reported by Weeks in the Mineral Resources of the United States for 1885 as follows:

	%	%
Manganese (metallic)	43.30	43.02
Iron (metallic)	3.67	4.24
Phosphorous	.243	.182
Silica	17.45	18.51

The Bugley mine, located about half a mile southwest of the Cabell, was worked about the same time and is said to have yielded about 2,000 tons of ore.

Southwest of Warminster, at Midway Mills, the Simpson mine was worked in 1882, produced 12,000 tons of high grade ore, shipped to Liverpool, England. The mine was developed by a shaft 150 feet deep which had to be abandoned because of flooding from water. The grade of ore is reported to have improved with depth; that above the water level yielded 70% of M_nO_2, that below the water level 80 to 85%.

The Davis mine, operated in the early 80's, is said to have produced 1,000 tons of ore. Weeks quotes the following analysis made of a selected sample of the ore:

	%
M_nO_2	90.42
Iron sesquioxide	2.24
Alumina	1.13
Lime	1.22
Magnesia	2.28
Silica	1.12
Phosphoric acid	.43
Water	1.25
Iron (metallic)	1.56
Manganese (metallic)	57.16
Phosphorous	.188

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Ercerpt from unpublished manuscript: "Geology and Mineral Resources of the James River - Roanoke River Manganese District, Virginia", by Gilbert H. Espenshade. United States Geological Survey. (Field work 1942).

Typescript, page 164: "The principal deposits of Nelson County lie near Warminster, midway between Rockfish River and Buffalo River. The manganese deposits are associated with the quartzite member of the Mt. Athos formation which is enclosed in fissile chlorite-muscovite schists. Some marble is noted, principally at depth. Mining has taken place for four miles along the strike of the quartzite bed. The principal mines from northeast to southwest are the Piedmont (Laynesville - Larus), Cabell, Bugley and Simpson. These mines were active between 1868 and 1887; 8,000 to 9,000 tons of washed ore were shipped. Some prospecting and mining was done during World Wars I and II. The Cabell and Bugley mines were explored by the U. S. Bureau of Mines in 1942. (Dr. Espenshade accompanied the Bureau of Mines party.)

Typescript, page 165: "The Piedmont, or Laynesville, mine is about 1.5 miles north of Warminster on property owned by C. D. Larus, Jr., of Richmond, Virginia. According to Mr. A. C. Horsley, of Manteo (nearby), the first work on this property was done about 1887 by a Mr. Miller. At a point half a mile northeast of the Cabell Mine, a tunnel was driven, and a shaft sunk to a depth of about 150 feet (locality 3, plate 1). Considerable water was encountered which could not be pumped out satisfactorily, altho a 12-inch pump was installed. The mine was closed down after a serious accident that killed two of the miners. No ore is reported to have been shipped (conflicts with statement in Dr. Haney's report) from the time at this time. In 1917 a shaft was sunk near the old shaft to a depth of 100 feet by Messrs. Hancock and Bondron, and a drift run to the old workings. No high-grade ore was found (see Dr. Haney's report), altho 21 tons of low grade ore was shipped which analyzed 35% M_nO_2,3.6% Fe and 31.8% SiO_2; presumably this was cherty ore of the type occurring on the dump. Quartzite, wad, and yellow chert with nodular manganese minerals are present on the dump of these workings. A fifth of a mile to the northeast are two old pits about 10 feet deep (locality 2, plate 1). Rotten quartzite is exposed in the pits, and some chert with nodular manganese oxides is scattered on the dumps. Two-fifths of a mile further northeast is an old water-filled shaft (locality 1, plate 1); the dump is composed of white and grey dolomitic marble but no manganese ore is visible."

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of the United States", 1885, page 312.

"Nelson County - In Nelson County several deposits of manganese have been worked quite extensively in past years, though no ore is now mined. These deposits are found in the ore belt of the James River already described, the belt running nearly parallel to the river and about 2 miles from the left or northwest bank. The manganese shows generally in small quantities on the surface, the deposit widening as it goes down. The manganese is found in pockets and usually in clay.

"From what is known as the Cabell mine, two miles from Warminster depot, on the Richmond and Alleghany Railroad, some 5,000 tons of manganese were taken in 1868, and shipped to Newcastle-on-Tyne. The mine has not been worked since 1871. An analysis of the ore showed 82.25 percent of manganese peroxide.

"About half a mile southwest of Cabell mine is a deposit known as the Bugley mine, which was worked about the same time and yielded about 2,000 tons of ore.

"At Midway Mills is a deposit on the land of Mr. G. F. Simpson, which was worked in 1882 and yielded some 1,200 tons of first class ore. The mine was worked by shaft to the depth of 165 feet, when it was drowned out. The ore above the water line is said to have shown some 70 per cent oxide, but below the line it was much richer, 80 to 85 per cent. The entire product was marketed in Liverpool.

"At the Davis mine in Nelson county, an ore giving from a picked specimen the following analysis was at one time mined, though operations are now suspended: . . . . . Some 1,000 tons have been taken from this mine, though none in the last year."

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma 1577X

Date received 6-4-51

ESTATE OF CHARLES D. LARUS, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Estate of Charles D. Larus, Jr., (deceased), Central National Bank of Richmond, Co-Executor Mr. W. B. Jacobs, V. Pres. & Trust Officer, Richmond, Va.							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	As far as can be ascertained, the Piedmont (Laynesville) and adjoining mines under the same ownership at that time, produced 5,000 tons of high grade (82.5%) manganese peroxide, shipped to England in 1868-71. The Cabell, Piedmont, Bugley, Simpson and Davis mines, close to one another, are said to have shipped 18,000 tons of washed ore.				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Estimated production at rate of 100 tons daily.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. Please see answer to Question 7 hereof, and accompanying papers.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
None measured at the present time. Object of testing is to locate such reserves and prepare estimates.					
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Estate of Charles D. Larus, Jr. (deceased)
The Central National Bank of Richmond,
Co-Executor
(Name of company)

By [signature]
(Signature of authorized official)

May 16, 1951
(Date)

Vice President and Trust Officer.
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
Executive Secretary

Sheet Number 1, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Answers to Questions:

1. Materials produced. (a) This is an application to explore old workings and undeveloped acreage for manganese.

   (b) None.

2. Known as the Laynesville property. Formerly known as the Piedmont Mine. Mining consisted of open pits and quarrying. Testing will be by drilling and some test pits and drifting.

   (a) Linear feet of shafts (old workings, as far as known) approximately 400 feet (see report of Dr. Marshall Haney herewith).
   (b) Linear feet of drifts and crosscuts: approximately 250 feet.
   (c) Included with (b).
   (d) Many test pits on the property, dug between 1870 and 1919.

   The water table on this property stood at about 100 feet below the surface during the previous operations. The open pits, including a very large one on the adjoining Cabell mine, are not flooded. In some of the shafts water stands within fifteen feet of the collars but the flow is not known. Water conditions would not affect drilling. The property occupies the crest of a low ridge and water would prove no serious problem to modern mining.

   Size of productive capacity cannot be known prior to the testing subject of this application, but the reported former production of the adjoining Cabell open pit property (with which the production of the Laynesville-Piedmont mine is lumped according to Dr. Haney) of 100 tons of washed ore daily would be the minimum desiratum.

3. (a) Nearest village (crossroads settlement) is Warminster, 1.5 miles south of the mine. Warminster is a station on the James River division of the Chesapeake & Ohio Railway. The mine lies about 50 miles south of Charlottesville and 47 miles northeast of Lynchburg, Virginia. The Nelson County seat is Lovingstone, on U. S. 29 (Lynchburg to Washington), 13 miles from the mine.

   (b) and (c) Mining District, Section and Range are not used in Virginia.

   (d) Nelson County, Virginia.

4. (a) Property is not in operation.

   (b) If manganese is found in commercial deposits, property would be leased or sold to an experienced mining company.

5. Records indicate that the mine was in development or operation in 1868-71, 1887-88, and again in 1916-17. As stated in 2(d) above, production from this property was probably consolidated with that from the adjoining Cabell Mine.

Given the open pit nature of the deposit, production could start within six months of commencement of work.

6. General business experience of the applicant. The Larus Estate is managed by the Central National Bank of Richmond. It is anticipated that if the loan herein appoied for is granted, the testing will be directed by an experienced mining engineer such as Dr. Marshall Haney of Takoma Park, Maryland (see Who's Who in Engineering), under the general supervision of John E. Kelly, Consultant in Natural Resources, Washington 5, D. C. (see Who's Who in Commerce & Industry, Vol. 6; Who's Who in the East, Vol. 2, etc.)

7. (a, b, c.) History of the property, as known to the applicant, is contained in the following accounts hereto attached:

Preliminary report by Dr. Marshall Haney
Excerpt from "Mineral Resources of Virginia"
Excerpt from "Geology and Mineral Deposits of the James-River-Roanoke River Manganese District"
Excerpt from "Mineral Resources of the United States"
Records at the Nelson County Courthouse show that the late Charles D. Larus, Jr., acquired the property in Nelson County, Virginia, known as the Laynesville Tract, containing approximately 1,344 acres, on July 6, 1914.

On May 12, 1916, Mr. Larus entered into a lease with J. G. Hancock of Chicago, Illinois, said lease setting forth that the lessee was to explore, develop and mine the manganese deposits in the property. During the First World War, Mr. Larus negotiated a sale of the property to the Japanese Government, then an ally seeking manganese. It is understood that the price was $50,000, but apparently the Armistice prevented consummation of the transaction.

Dr. Haney remembers seeing an exhaustive report made in the 1920's by Mr. Kirby Thomas on this property, but no copy of this has been unearthed to date. Mr. Thomas was a leading mining engineer, established in New York, who died about 1932.

13. Access Roads. Access to the mineralized zone from the county road (water-bound macadam, oiled, now being improved and regraded) is from 3/4 to 2.0 miles, depending on the point of departure. From the county road old timber and mining roads lead through a lightly wooded area (tree diameter rarely over ten inches) to the sites of the mines and prospect pits. These could be opened with little effort by an axeman and would suffice in dry weather for the use of drilling crews testing the property.

14. All reports speak of abundant water. Water for drilling could be pumped from one of the old shafts reported by Dr. Haney, from an all-year creek, from a large spring reported by Dr. Espenshade, or by drilling a water well 100 to 150 feet in depth to tap the water table.

15. Drilling would be powered by gasoline.

Sheet No. 3, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

16. In addition to drilling crews (2 shifts, totalling 16 hours daily), 4 miners, 4 muckers, 2 general handymen, 1 waterboy and 1 foreman would carry on the exploration, under the direction of a mining engineer. The drilling would be contracted, contractor to furnish and pay his crews.

17. Equipment and facilities presently available: None.

18. No.

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

PRELIMINARY REPORT* ON THE MANGANESE RESOURCES OF THE LAYNESVILLE TRACT IN NELSON COUNTY, VIRGINIA

By

Marshall Haney
Mining Engineer
Geer, Virginia

Location

This property consisting of 1457 acres is located in the southeast portion of Nelson County, Virginia, and about two miles from Warminster, a station on the James River Division of the C. & O. R. R. which is about 100 miles from Richmond, Va. and 47 miles from Lynchburg, Va. The shipping facilities are ideal. The haul from the mines would be all downgrade to the railroad and the ore could be hauled over the earth road by trucks or by a wire rope tramway to storage bins on the railroad.

The C. & O. R. R. gives direct connections with tidewater at Newport News, Va. and rail connections north and south at Richmond, Va., North and south connections over the Southern Railway at Lynchburg, Va., and east and west connections over the N. & W. R. R.

The C. & O. R. R. forms a direct connection with the furnaces located along the Ohio and Mississippi Rivers which consume large quantities of manganese ore.

General Geology

The surface of the property rises from the James River and at the highest point reaches an elevation of about 250 feet.

This property is in the manganese ore bearing formation which is known as the James River belt and extends in a northeasterly direction from Pittsylvania County to Albemarle County and includes portions of Bedford, Campbell, Amherst, Appomattox, Nelson and Buckingham Counties.

The country rock is exposed along north side of the property, on the southwest portion it is a decomposed micaceous sandstone and on the northeast end it is decomposed granite. The ore bearing formation on this property is two miles long.

History

This property joins the Cabell Manganese Mine and is near the Simpson, Bugley and Davis mines, all of these mines are on the same ore bearing formation.

Mining started in this vicinity in the '80's. The geological survey literature states that the above named mines produced about 18,000 tons of high

* Dated 1932

grade manganese ore. The Cabell mine produced 5,000 tons which was shipped to England. I have been unable to find a record of the production from Laynesville, and I am of the opinion that the Laynesville production was listed with the Cabell production as the Cabell and Laynesville at that period was owned by the same party and in all probability a large part of the Cabell production was mined on what is known at this time as the Laynesville property.

The early operators confined their efforts to the ore located near the surface, most of their work was open cuts.

During the early '80's a group of English capitalists made plans to develop this property. They built a steam power plant and a shaft was sunk to the depth of 150 feet and when ready for production an accident happened which killed several men. This caused a temporary shut down which was followed by unfavorable market conditions resulting in a permanent stoppage of work.

Starting in at a point near the Cabell mine and going in a northeast direction along the line of the strike of the ore bearing formation we come to the old workings in the following order: Shaft 70 feet deep, now caved except first 15 feet in which some small seams are exposed. Shaft 150 feet, about 20 feet at surface open. Shaft 40 feet, about 10 feet at surface open. Shallow shaft connected with a shaft tunnel, some ore near mouth of tunnel. A shaft of unknown depth, but from the amount of material on the dumps I am of the opinion that it must be over 100 feet. The upper 15 feet is caved, the remaining portion is under water, and the first class timbers appear to be perfectly preserved.

Portal of a caved tunnel 150 feet long driven in the rid e.

The last named work is one and one-fourth miles from the Cabell line and the remaining three-fourth mile on Laynesville is without development.

Mr. A. C. Horsley, of Warminster, who showed me over the property told me that some years ago he picked enough ore from the old dumps to ship some eight or ten cars of ore, this being the second picking over the dump. Another party picked over them when he was quite a young man.

Analyses of Ore

Manganese (metallic)	38.89
Iron	5.61
Silica	15.81
Phosphorous	.013
Sulphur	.015

The above analyses is an average secured from the old dumps. In view of the fact that these dumps have been picked over and the best ore shipped on two previous occasions, I think it would be fair to say that the above analyses represents the third grade ore, and I am of the opinion that the better grade of ore will run 50% or more in metallic manganese and correspondingly lower in impurities which would put it in the class of extra good ore.

Due to the caved conditions of the old workings I was unable to get in them and get a sample of the best ore.

Conclusion

This property in its present physical condition can not be classed as a proven mine but an extra good prospect worthy of exploration.

I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies.

Last year (1931) in about four months time I completed 130 feet of shaft and drift work, timbered in a first class manner, and 70 feet of open pit work at a cost of $2,000.00. I am giving these figures for comparison.

I am of the opinion that the same work on this property could be done for less, due to the fact that conditions are more favorable in mining, labor and dupplies.

The chance element would be 8 to 2 in favor of locating commercial ore bodies providing the work is given proper technical supervision.

/s/ Marshall Haney
Marshall Haney
Certified Mining Engineer
Virginia Certificate No. 1

Geer, Virginia
January 28, 1932

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of Virginia", prepared for the Virginia Jamestown Exposition Commission by Dr. Thomas Leonard Watson, Professor of Economic Geology in the University of Virginia.

"In the past years, several deposits of manganese ores have been somewhat extensively marked in Nelson County, although the ore is not mined to the writer's knowledge at any point in the county at present. (1907) The ore occurs in the Southeastern portion of the County, located about 2 miles north of the James River, in the vicinity of Warminster and Midway Mills, stations on the Chesapeake & Ohio Railway. The occurrence of ores is in the form of pockets in the residual clays of the crystalline schists. Four mines have produced considerable ore. These are the Cabell, Bugley, Simpson and Davis. The Cabell mine, located within 2 miles of Warminster, has not been worked since 1871. (Was worked again after date of this book.) In 1868 and 1869, 5,000 tons of ore were mined and shipped to Newcastle-on-Tyne. A reported analysis of this ore shows 82.25% of manganese perexide. Two other analyses of ore from this mine are reported by Weeks in the Mineral Resources of the United States for 1885 as follows:

	%	%
Manganese (metallic)	43.30	43.02
Iron (metallic)	3.67	4.24
Phosphorous	.243	.182
Silica	17.45	18.51

The Bugley mine, located about half a mile southwest of the Cabell, was worked about the same time and is said to have yielded about 2,000 tons of ore.

Southwest of Warminster, at Midway Mills, the Simpson mine was worked in 1882, produced 12,000 tons of high grade ore, shipped to Liverpool, England. The mine was developed by a shaft 150 feet deep which had to be abandoned bedause of flooding from water. The grade of ore is reported to have improved with depth; that above the water level yielded 70% of M_nO_2, that below the water legel 80 to 85%.

The Davis mine, operated in the early 80's, is said to have produced 1,000 tons of ore. Weeks quotes the following analysis made of a selected sample of the ore:

	%
M_nO_2	90.42
Iron sesquioxide	2.24
Alumina	1.13
Lime	1.22
Magnesia	2.28
Silica	1.12
Phosphoric acid	.43
Water	1.25
Iron (metallic)	1.56
Manganese (metallic)	57.16
Phosphorous	.188

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from unpublished manuscript: "Geology and Mineral Resources of the James River - Roanoke River Manganese District, Virginia", by Gilbert H. Espenshade. United States Geological Survey. (Field work 1942).

Typescript, page 164: "The principal deposits of Nelson County lie near Warminster, midway between Rockfish River and Buffalo River. The manganese deposits are associated with the quartzite member of the Mt. Athos formation which is enclosed in fissile chlorite-muscovite schists. Some marble is noted, principally at depth. Mining has taken place for four miles along the strike of the quartzite bed. The principal mines from northeast to southwest are the Piedmont (Laynesville - Larus), Cabell, Bugley and Simpson. These mines were active between 1868 and 1887; 8,000 to 9,000 tons of washed ore were shipped. Some prospecting and mining was done during World Wars I and II. The Cabell and Bugley mines were explored by the U. S. Bureau of Mines in 1942. (Dr. Espenbhade accompanied the Bureau of Mines party.)

Typescript, page 165: "The Piedmont, or Laynesville, mine is about 1.5 miles north of Warminster on property owned by C. D. Larus, Jr., of Richmond, Virginia. According to Mr. A. C. Horsley, of Manteo (nearby), the first work on this property was done about 1887 by a Mr. Miller. At a point half a mile northeast of the Cabell Mine, a tunnel was driven, and a shaft sunk to a depth of about 150 feet (locality 3, plate 1). Considerable water was encountered which could not be pumped out satisfactorily, altho a 12-inch pump was installed. The mine was closed down after a serious accident that killed two of the miners. No ore is reported to have been shipped (conflicts with statement in Dr. Haney's report) from the time at this time. In 1917 a shaft was sunk near the old shaft to a depth of 100 feet by Messrs. Hancock and Bondron, and a drift run to the old workings. No high-grade ore was found (see Dr. Haney's report), altho 21 tons of low grade ore was shipped which analyzed 35% Mn_2O_3, 3.6% Fe and 31.8% SiO_2; presumably this was cherty ore of the type occurring on the dump. Quartzite, wad, and yellow chert with nodular manganese minerals are present on the dump of these workings. A fifth of a mile to the northeast are two old pits about 10 feet deep (locality 2, plate 1). Rotten quartzite is exposed in the pits, and some chert with nodular manganese oxides is scattered on the dumps. Two-fifths of a mile further northeast is an old water-filled shaft (locality 1, plate 1); the dump is composed of white and grey dolomitic marble but no manganese ore is visible."

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of the United States", 1885, page 312.

"Nelson County - In Nelson County several deposits of manganese have been worked quite extensively in past years, though no ore is now mined. These deposits are found in the ore belt of the James River already described, the belt running nearly parallel to the river and about 2 miles from the left or northwest bank. The manganese shows generally in small quantities on the surface, the deposit widening as it goes down. The manganese is found in pockets and usually in clay.

"From what is known as the Cabell mine, two miles from Warminster depot, on the Richmond and Alleghany Railroad, some 5,000 tons of manganese were taken in 1868, and shipped to Newcastle-on-Tyne. The mine has not been worked since 1871. An analysis of the ore showed 82.25 percent of manganese peroxide.

"About half a mile southwest of Cabell mine is a deposit known as the Bugley mine, which was worked about the same time and yielded about 2,000 tons of ore.

"At Midway Mills is a deposit on the land of Mr. G. F. Simpson, which was worked in 1882 and yielded some 1,200 tons of first class ore. The mine was worked by shaft to the depth of 165 feet, when it was drowned out. The ore above the water line is said to have shown some 70 per cent oxide, but below the line it was much richer, 80 to 85 per cent. The entire product was marketed in Liverpool.

"At the Davis mine in Nelson county, an ore giving from a picked specimen the following analysis was at one time mined, though operations are now suspended: . . . . . Some 1,000 tons have been taken from this mine, though none in the last year."

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1577X

Date received 6-4-51

Participation

ESTATE OF CHARLES D. LAMUS, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $40,000

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Nelson County, Virginia

Date of filing MF-100 May 16, 1951

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.

*5. Are you the owner or the lessee of the property? Owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None.

7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not applicable.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Applicant is prepared to invest $10,000.00, being 25% of the estimated cost of the testing planned.

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. Herewith. (a) and (b) are the same.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Could be washed on property and shipped via C. & O. Ry. from Warminster Station (1½ miles) to ore buyers and mills.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Manganese, open pits.

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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

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

THE REQUIREMENTS AND COSTS

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

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

Estate of C. D. Larus, Jr.
Central National Bank of Richmond, Co-Executor By [signature]
(Name of company) (Signature of authorized official)

May 16, 1951 Vice President and Trust Officer
(Date) (Title)

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

*Same as footnote on page 1.

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

Sheet No. 1, Accompanying Form MF-103, submitted by ESTATE OF C. D. LARUS, JR.

Answer to Questions:

21. It is desired to test the mineralized zone of the Laynesville or Piedmont Tract, hereinbefore described, for commercial deposits of manganese ores. Guides to the tests will be the old workings and outcrops, which extend for a distance of from one to two miles across the property in a northeast-southwest direction. The ores occur in partially decomposed schists and residual clays in depths from grass roots to about 350 feet. Testing, estimated to require eight months time, will consist of clearing the old shafts and tunnels where deemed useful, and core drilling of outcrops and ore bodies encountered in the old workings. Two thousand feet of core drilling can be presently contracted at $5.00 per foot, the contractor furnishing labor. Dr. Haney's report (attached) states: "I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies."

22. Please see MF-100, herewith, accompanying papers, for reports on this tract. The only map available to the applicant, a property plat, is hereto attached.

23. Requirements and Costs. Assuming that the shaft and tunnel rehabilitation will require four months and the drilling will be underway for six months and that the labor estimate will not include drilling crews which are furnished by the contractor:

((a)	2,000 feet drilling at $5.00 per foot	$10,000
((a)	Labor (4 miners, 4 muckers, 2 handymen,	
(	1 waterboy, 1 foreman)	10,000
(b)	Supervisors (mining engineer, necessary time on job, $500/8 mos.),(consultant, overall supervision, fee $1,500), (supervisors' travel, $1,000)	6,500
(c)	Cost of necessary repairs (clearing roads, $800; timbering shafts, tunnels, $2,000)	2,800
(d)	Temporary office and tool house, storage, core handling	2,000
(e)	(It is believed that pumps, power and lighting units, trucks, etc. can be rented) Other items	1,000
(f)	Items in (e) mentioned as rentable	1,700
(g)	None	
(h)	Powder, miners' tools, wire, hose, etc., other than fuel	2,500
(i)	Gasoline (overall average 50 gallons daily @ 30¢/gal. delivered)	3,000
	Miscellaneous items	500
	Total above	$40,000

24. Time schedule (maximum, 8 months duration) and Money to be spent.

The answer must be somewhat flexible, depending upon how closely the

drilling follows reopening of the old workings. The following is assumed typical:

Month	Items	Expenditure therein
1st	Clear roads, $800; advance to contractor, $1,000; all of (d) above, $2,000; engineer, $500; travel, $100; purchase supplies, $1,000; gasoline in bulk, $200; advance rental (f) above, $500; 1 week of labor above, $600.	$6,700.00
2nd	Labor, $2,500; engineer, $500; travel, $150; consultant, $500; timber, etc. for shafts, $1,000; rental, $200; (e) above, $1,000; gasoline, etc. $500.	6,350.00
3rd	Labor, $2,500; engineer, $500; travel, $100; drilling 2 weeks, $1,000; gasoline, etc., $500; tunnel, etc. repair, $1,000; materials, supplies, $500; rentals, $200.	6,200.00
4th	Labor, $2,500; engineer, $500; travel, $100; drilling, $1,750; gasoline, etc., $500; rentals, $200; miscellaneous (i) above, $500.	6,050.00
5th	Labor 3 weeks, $1,800; engineer, $500; consultant, $500; travel, $150; drilling, $1,750; gasoline, etc., $500, rentals, $200; supplies, $500.	5,800.00
Spent in first five months, as above		$31,800.00

For the sixth and remaining months of the test, the work will be confined to drilling and supervision. Supplies will be on hand or paid for and on call, the drilling fund will show a balance (at the end of the fifth month) of $5,500 plus a credit of $1,000, representing the advance to the contractor, so that ample funds remain to complete the work.

Jas. River Orchard Corp.

To) Deed for Land

Chas. D. Larus, Jr.

Richmond, Virginia, July 6, 1914.

At a meeting of the Board of Directors of The James River Orchard Corporation, held at its office this day all the Directors being present, the President stated that he had received an offer from Charles D. Larus, Jr., of Five Dollars and One Half ($5.50) per acre for the Fourteen Hundred and Fifty-Seven and Seventy Two one Hundredths acres of land, more or less, known as Laynesville near Warminister in Nelson County, Virginia, same being the entire remainder of the land now held by the James River Orchard Corporation; and on motion, and in pursuance of authority conferred upon the Board of Directors by the Stockholders at their meeting held this day, it was unanimously resolved to accept the said offer, and the President was authorized to sell the said property and to make, Execute and deliver to the said Charles D. Larus, Jr., a good and sufficient deed and to sign the name of this Corporation to said conveyance, and that the Secretary be authorized and directed to affix the seal of the said Corporation, and attest the same, and that the officers do acknowledge the same for recordation.

(CORPORATE SEAL) William Todd Secretary.

William Todd, Secretary.

This Deed, made this 6th day of July in the year 1941, between The James River Orchard Corporation, a Corporation under the laws of Virginia, (in pursuance if a resolution of its Board of Directors passed on the 6th day of July, 1914, an attested copy of which is attached to and made a part of this deed), party of the first part; and Charles D. Larus, Jr., of the City of Richmond, Virginia, party of the second part- Witnesseth.

That for and in consideration of the sum of Ten Dollars ($10.00) and other valuable considerations, receipt of which is

hereby acknowledged, the said party of the first part doth grant and convey with General Warranty, unto the said party of the second part the following described property in Nelson County, Virginia, bounded and described as follows, and delineated on a plat hereto attached which is made a part of this deed, to-wit:

Beginning for the same on the western most side of the James River at the mouth of Slaty Branch; and running thence, up said branch, in a westerly direction to a point marked "A" on said plat on the western most side of the right of way of the Chesapeake & Ohio Railway Company; thence, on the right of way of the Chesapeake & Ohio Railway Company, North, Three and one-half Degrees East, Twelve and Ninety-Hundredths' Poles; thence North Twelve and On-Fourth Degrees west, Thirteen Poles; Thence north Eighteen and three-quarters degrees East, Thirteen and Four-tenths Poles; Thence north Eighteen and One-Fourth Degrees East, Twenty-Seven and Three-Tenth's Poles to a point marked "B" on said Plat; thence North Eighty-Seven, and One-Half Degrees West, Fifty-Eight and Nine-Tenth's Poles to a Point marked "C" on said plat; thence South Two and One-Half Degrees west, Seventeen and Eight-Tenth's poles to Slaty Branch at a point marked "D" on said plat; thence, up and on Slaty Branch, One Hundred and Eighty-Two Poles to pointers; thence north, Fifty-Two Degrees West, One Hundred and Fourt poles to Pointers; thence north, Fourteen Degrees West, Forty-two poles to Pointers at the South East corner of the Cabell Mine Tract, as shown on said plat; thence, on said Cabell Mine Tract north, nineteen degrees west, one Hundred and Thirty-Eight poles to pointers, at the north-east corner of said Cabell mine Tract; thence north, Fifty-four Degrees East, Ninety poles; thence North Seventy Degrees East, Eighty-one poles to pointers; thence north Sixteen Degrees West, one hundred and Eighty-one poles to pointers

thence Norty Sixty-One Degrees East Forty-six poles; thence north Seventy-Eight Degrees East, Forty-Eight poles; thence North Fifty-nine Degrees East Seventy-Six poles to pointers; thence North Four and one-half Degrees East Sixty-four poles; thence north Twenty-Seven Degrees East Forty-Two poles to pointers; thence north Seventy-five Degrees East, one Hundred and Ten poles to pointers; thence South Two Degrees West, one Hundred and Thirty-Eight poles to pointers; thence South Eighty-Six Degrees East, fifty-six poles to pointers; thence South Forty-Eight Degrees west One Hundred and fifteen poles to pointers; thence South Twenty-Eight and one-half Degrees East, Forty-four poles to pointers; thence North Fifty-four Degrees East, Sixty-four poles; thence North Seventy-Nine Degrees East, thirty-three poles; thence north Forty-four Degrees East, Sixty-four poles to pointers; thence South Sixty-two Degrees East, Fifty-Seven poles to pointers; thence South Seven degrees west, 210 poles to pointers; thence South 19° East, 46 poles; thence South 2° West, 20 poles; thence South 43° East 54 poles to pointers; thence South Twenty-Three degrees west 12 poles; thence South 39° west, 16 poles; thence South 55° West, 18 poles; thence South 50° West, 12 poles; thence South 83° West, 31½ poles, thence South 21° West, 44 poles; thence South 20° East 86 poles; thence south 3° East 54 poles; thence North 79° West 9 poles; thence South Eighteen Degrees west, Eight poles to the James River and thence up and on the James River, 305 poles to Slaty Branch to the place og beginning- Containing eighteen hundred and Twenty-two and Thirty Hundredth's Acres of land, more or less, excepting therefrom the right of way and property of the Chesapeake & Ohio Railway Company. Being the same property conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by his deed dated September 30th, 1913, recorded in the Clerk's Office of Nelson County Court in D. B. 38, page 477. Less, the following tracts of land severally conveyed, to wit:

(1) One Hundred and six and one-half acres conveyed to H. D. Omohundro and J. L. Horsley by deed recorded in D. B. 38, page 573. (2) Eighty Acres conveyed to J. W. Proffitt et als by deed recorded in D. B. 39, page 2. (3) Seven and one-quarter acres conveyed to J. R. Cunningham by deed Recorded in D. B. 39, page 5. (4) Twenty-nine acres conveyed to J. C. Cottell by deed recorded in D. B. 39, page 24. (5) One Hundred and seventeen and one-half acres conveyed to Omohundro and Horsley by deed recorded in D. B. 39, page 179. (6) Twenty-four and Thirty-three one Hundredth's Acres conveyed to C. E. Dolan by deed recorded in D. B. 39, page 203. The above conveyances totaling Three Hundred and Sixty-Four and Fifty-Eight one Hundredth's Acres. Therefore this conveyance from the James River Orchard Corporation to Charles D. Larus, Jr., contains Fourteen Hundred and Fifty-Seven and Seventy-Two One Hundredth's Acres, more or less. The property hereby conveyed may be further described as all of the land which was conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by deed above mentioned, which lies north and west of the main County Road from Howardsville to Warminister less the Eighty Acres conveyed to J. W. Proffitt et als and the Twenty-nine acres conveyed to Cattett as above set forth. This property is further sold subject to a timber contract between the James River Orchard Corporation and H. M. Harris dated December the 9th, 1913, and recorded in the Clerk's Office of the Nelson County Court in D. B. 39, page 563.

The party of the first part covenants that it has the right to convey the said land, that it has done no act to encumber the same except as above setforth; that the grantee shall have quiet possession free from all further encumbrances; and that the said party of the first part will execute such further assurance of the said land as may be requisite.

In Witness Whereof, The said James River Orchard Corporation has caused this deed to be signed, sealed and delivered in its name and behalf by R. H. Harwood, its President, and its Corporate seal to be herete affixed,

attested by William Todd, its Secretary, the day and year first in this deed written.

(CORPORATE SEAL) The James River Orchard Corporation

By R. H. Harwood, President.

Attest:

William Todd, Secretary.

State of Virginia,

City of Richmond, to-wit:

I, G. Carrington Moseley, a Notary Public for the City aforesaid in said State, do certify that R. H. Harwood, President, and William Todd, Secretary of the James River Orchard Corporation whose names are signed to the foregoing writing, bearing date on the 6th day of July, 1914, have severally acknowledged the same before me in my said City. And the said R. H. Harwood, President, being duly sworn, says that this deed is made in pursuance of a unanimous resolution of the Board of Directors of said Corporation, as authorized by the Stockholders. And that the seal of the Corporation affixed to said writing is the corporate seal of the said party of the first part.

Given under my hand this 24th day of July, 1914.

G. Carrington Moseley.
Notary Public.

My commission expires)
October the 9th 1917 (

Virginia:

In Nelson County Circuit Court Clerk's Office July 27, 1914.

This deed and plat was presented in said office and, upon the certificate of acknowledgement thereto annexed, admitted to record.

Teste: E. L. Kidd, Clerk

A copy,

Teste: /S/ C. W. Embrey Clerk

Deed Book 39, pages 338-341

CHARLES D. LARUS, Jr., and WIFE

To) DEED B. & S.

DECKER CALL.

THIS DEED, made this 23rd. day of February, 1921, between Charles D. Larus, Jr., and Anne M. Larus, his wife, of the City of Richmond, Virginia, parties of the first part, and Decker Call, of Nelson County, Virginia, party of the second part;

WITNESSETH: That for and in consideration of the sum of One Thousand ninety-two and fifty one-hundredths ($1092.50) dollars, paid and secured to be paid, the said Charles D. Larus, Jr. and wife do grant unto the said Decker Call with General Warranty, all of a certain tract of land located in Nelson County, Virginia, Greenfield District, containing one hundred nine and one-fourth (109¼) acres, more or less, the same being a portion of the Lansville tract, which lays on the north side of the Howardsville and Warminister public road, and adjoins the lands of Horsley and Omohundro, C. E. Dolan, a part of the Lewis Estate, and the lands of Charles D. Larus, Jr. and more fully described in metes and bounds by plat of F. W. Swan, made Feby. 4th. 1921, which is hereto attached and made a part of this deed; and being a part of the land conveyed to the said Charles D. Larus, Jr., by deed from the James River Orchard Corporate date July 6th, 1914, and recorded in the Clerk's Office of the Nelson County Circuit Court in D. B. 39, page 338. The said parties of the first part hereby reserve the right to use for ingress and egress, the roads through the said land.

The said parties of the first part covenant that they have the right to convey the said land to the grantee, that they have done no act to encumber the said land; that the grantee shall have quiet possession of the said land, free from all encumbrances; and that the said parties of the first part will execute such further

assurances of the said land as may be requisite.

Witness the following signatures and seals:

Charles D. Larus, Jr., (seal)

Anne M. Larus (seal)

State of Virginia,
City of Richmond, to-wit:

I, Edw. L. Williams, a Notary Public, for the City aforesaid in the State of Virginia, do certify that Charles D. Larus, Jr. and Anne M. Larus, his wife, whose names are signed to the foregoing writing, bearing date on the 23rd. day of February, 1921, have acknowledged the same before me in my City aforesaid.
Given under my hand this 28th. day of February, 1921.
My commission expires March 13th, 1922.

Edw. L. Williams, Notary Public.

(Notary Seal)

VIRGINIA:

In the Clerk's Office of the Circuit Court of Nelson County, March 11th, 1921
This deed, with $2.00 Rev. Stamp affixed and cancelled, was this day received in said office and, with the certificate of acknowledgement, admitted to record at 11:30 o'clock A. M.

Teste:
C. W. Embrey, Clerk

A Copy, Teste: /S/ C. W. Embrey Clerk

Deed Book 46, page 111-112

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1577X

Date received 6-4-51

Participation

ESTATE OF CHARLES D. LARUS, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $40,000

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Nelson County, Virginia

Date of filing MF-100 May 16, 1951

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property? Owner
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not applicable.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Applicant is prepared to invest $10,000.00, being 25% of the estimated cost of the testing planned.

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. Herewith. (a) and (b) are the same.

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

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled: Could be washed on property and shipped via C. & O. Ry. from Warminster Station (1½ miles) to ore buyers and mills.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Manganese, open pits.

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

JUN 4 - 1951
Mineral Leasing Section
Mineral Administration
DEPARTMENT OF THE INTERIOR

CERTIFICATION

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

Estate of C. D. Larus
Central National Bank of Richmond, Co-Executor
(Name of company)

By [signature]
(Signature of authorized official)

May 16, 1951
(Date)

Vice President and Trust Officer
(Title)

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

*Same as footnote on page 1.

Sheet No. 1, Accompanying Form MF-103, submitted by ESTATE OF C. D. LARUS, JR.

Answer to Questions:

21. It is desired to test the mineralized zone of the Laynesville or Piedmont Tract, hereinbefore described, for commercial deposits of manganese ores. Guides to the tests will be the old workings and outcrops, which extend for a distance of from one to two miles across the property in a northeast-southwest direction. The ores occur in partially decomposed schists and residual clays in depths from grass roots to about 350 feet. Testing, estimated to require eight months time, will consist of clearing the old shafts and tunnels where deemed useful, and core drilling of outcrops and ore bodies encountered in the old workings. Two thousand feet of core drilling can be presently contracted at $5.00 per foot, the contractor furnishing labor. Dr. Haney's report (attached) states: "I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies."

22. Please see MF-100, herewith, accompanying papers, for reports on this tract. The only map available to the applicant, a property plat, is hereto attached.

23. Requirements and Costs. Assuming that the shaft and tunnel rehabilitation will require four months and the drilling will be underway for six months and that the labor estimate will not include drilling crews which are furnished by the contractor:

((a)	2,000 feet drilling at $5.00 per foot	$10,000
((a)	Labor (4 miners, 4 muckers, 2 handymen,	
(	1 waterboy, 1 foreman)	10,000
(b)	Supervisors (mining engineer, necessary time on job, $500/8 mos.),(consultant, overall supervision, fee $1,500), (supervisors' travel, $1,000)	6,500
(c)	Cost of necessary repairs (clearing roads, $800; timbering shafts, tunnels, $2,000)	2,800
(d)	Temporary office and tool house, storage, core handling	2,000
(e)	(It is believed that pumps, power and lighting units, trucks, etc. can be rented) Other items	1,000
(f)	Items in (e) mentioned as rentable	1,700
(g)	None	
(h)	Powder, miners' tools, wire, hose, etc., other than fuel	2,500
(i)	Gasoline (overall average 50 gallons daily @ 30¢/gal. delivered)	3,000
	Miscellaneous items	500
	Total above	$40,000

24. Time schedule (maximum, 8 months duration) and Money to be spent.

The answer must be somewhat flexible, depending upon how closely the

drilling follows reopening of the old workings. The following is assumed typical:

Month	Items	Expenditure therein
1st	Clear roads, $800; advance to contractor, $1,000; all of (d) above, $2,000; engineer, $500; travel, $100; purchase supplies, $1,000; gasoline in bulk, $200; advance rental (f) above, $500; 1 week of labor above, $600.	$6,700.00
2nd	Labor, $2,500; engineer, $500; travel, $150; consultant, $500; timber, etc. for shafts, $1,000; rental, $200; (e) above, $1,000; gasoline, etc. $500.	6,350.00
3rd	Labor, $2,500; engineer, $500; travel, $100; drilling 2 weeks, $1,000; gasoline, etc., $500; tunnel, etc. repair, $1,000; materials, supplies, $500; rentals, $200.	6,200.00
4th	Labor, $2,500; engineer, $500; travel, $100; drilling, $1,750; gasoline, etc., $500; rentals, $200; miscellaneous (i) above, $500.	6,050.00
5th	Labor 3 weeks, $1,800; engineer, $500; consultant, $500; travel, $150; drilling, $1,750; gasoline, etc., $500, rentals, $200; supplies, $500.	5,800.00
Spent in first five months, as above		$31,800.00

For the sixth and remaining months of the test, the work will be confined to drilling and supervision. Supplies will be on hand or paid for and on call, the drilling fund will show a balance (at the end of the fifth month) of $5,500 plus a credit of $1,000, representing the advance to the contractor, so that ample funds remain to complete the work.

Jas. River Orchard Corp.

To) Deed for Land

Chas. D. Larus, Jr.

Richmond, Virginia, July 6, 1914.

At a meeting of the Board of Directors of The James River Orchard Corporation, held at its office this day all the Directors being present, the President stated that he had received an offer from Charles D. Larus, Jr., of Five Dollars and One Half ($5.50) per acre for the Fourteen Hundred and Fifty-Seven and Seventy Two one Hundredths acres of land, more or less, known as Laynesville near Warminister in Nelson County, Virginia, same being the entire remainder of the land now held by the James River Orchard Corporation; and on motion, and in pursuance of authority conferred upon the Board of Directors by the Stockholders at their meeting held this day, it was unanimously resolved to accept the said offer, and the President was authorized to sell the said property and to make, Execute and deliver to the said Charles D. Larus, Jr., a good and sufficient deed and to sign the name of this Corporation to said conveyance, and that the Secretary be authorized and directed to affix the seal of the said Corporation, and attest the same, and that the officers do acknowledge the same for recordation.

(CORPORATE SEAL) William Todd Secretary.

William Todd, Secretary.

This Deed, made this 6th day of July in the year 1941, between The James River Orchard Corporation, a Corporation under the laws of Virginia, (in pursuance if a resolution of its Board of Directors passed on the 6th day of July, 1914, an attested copy of which is attached to and made a part of this deed), party of the first part; and Charles D. Larus, Jr., of the City of Richmond, Virginia, party of the second part- Witnesseth.

That for and in consideration of the sum of Ten Dollars ($10.00) and other valuable considerations, receipt of which is

hereby acknowledged, the said party of the first part doth grant and convey with General Warranty, unto the said party of the second part the following described property in Nelson County, Virginia, bounded and described as follows, and delineated on a plat hereto attached which is made a part of this deed, to-wit:

Beginning for the same on the western most side of the James River at the mouth of Slaty Branch; and running thence, up said branch, in a westerly direction to a point marked "A" on said plat on the western most side of the right of way of the Chesapeake & Ohio Railway Company; thence, on the right of way of the Chesapeake & Ohio Railway Company, North, Three and one-half Degrees East, Twelve and Ninety-Hundredths' Poles; thence North Twelve and On-Fourth Degrees west, Thirteen Poles; Thence north Eighteen and three-quarters degrees East, Thirteen and Four-tenths Poles; Thence north Eighteen and One-Fourth Degrees East, Twenty-Seven and Three-Tenth's Poles to a point marked "B" on said Plat; thence North Eighty-Seven, and One-Half Degrees West, Fifty-Eight and Nine-Tenth's Poles to a Point marked "C" on said plat; thence South Two and One-Half Degrees west, Seventeen and Eight-Tenth's poles to Slaty Branch at a point marked "D" on said plat; thence, up and on Slaty Branch, One Hundred and Eighty-Two Poles to pointers; thence north, Fifty-Two Degrees West, One Hundred and Fourt poles to Pointers; thence north, Fourteen Degrees West, Forty-two poles to Pointers at the South East corner of the Cabell Mine Tract, as shown on said plat; thence, on said Cabell Mine Tract north, nineteen degrees west, one Hundred and Thirty-Eight poles to pointers, at the north-east corner of said Cabell mine Tract; thence north, Fifty-four Degrees East, Ninety poles; thence North Seventy Degrees East, Eighty-one poles to pointers; thence north Sixteen Degrees West, one hundred and Eighty-one poles to pointers

thence Norty Sixty-One Degrees East Forty-six poles; thence north Seventy-Eight Degrees East, Forty-Eight poles; thence North Fifty-nine Degrees East Seventy-Six poles to pointers; thence North Four and one-half Degrees East Sixty-four poles; thence north Twenty-Seven Degrees East Forty-Two poles to pointers; thence north Seventy-five Degrees East, one Hundred and Ten poles to pointers; thence South Two Degrees West, one Hundred and Thirty-Eight poles to pointers; thence South Eighty-Six Degrees East, fifty-six poles to pointers; thence South Forty-Eight Degrees west One Hundred and fifteen poles to pointers; thence South Twenty-Eight and one-half Degrees East, Forty-four poles to pointers; thence North Fifty-four Degrees East, Sixty-four poles; thence North Seventy-Nine Degrees East, thirty-three poles; thence north Forty-four Degrees East, Sixty-four poles to pointers; thence South Sixty-two Degrees East, Fifty-Seven poles to pointers; thence South Seven degrees west, 210 poles to pointers; thence South 19° East, 46 poles; thence South 2° West, 20 poles; thence South 43° East 54 poles to pointers; thence South Twenty-Three degrees west 12 poles; thence South 39° west, 16 poles; thence South 55° West, 18 poles; thence South 50° West, 12 poles; thence South 83° West, 31½ poles, thence South 21° West, 44 poles; thence South 20° East 86 poles; thence south 3° East 54 poles; thence North 79° West 9 poles; thence South Eighteen Degrees west, Eight poles to the James River and thence up and on the James River, 305 poles to Slaty Branch to the place og beginning- Containing eighteen hundred and Twenty-two and Thirty Hundredth's Acres of land, more or less, excepting therefrom the right of way and property of the Chesapeake & Ohio Railway Company. Being the same property conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by his deed dated September 30th, 1913, recorded in the Clerk's Office of Nelson County Court in D. B. 38, page 477. Less, the following tracts of land severally conveyed, to wit:

(1) One Hundred and six and one-half acres conveyed to H. D. Omohundro and J. L. Horsley by deed recorded in D. B. 38, page 573. (2) Eighty Acres conveyed to J. W. Proffitt et als by deed recorded in D. B. 39, page 2. (3) Seven and one-quarter acres conveyed to J. R. Cunningham by deed Recorded in D. B. 39, page 5. (4) Twenty-nine acres conveyed to J. C. Cottell by deed recorded in D. B. 39, page 24. (5) One Hundred and seventeen and one-half acres conveyed to Omohundro and Horsley by deed recorded in D. B. 39, page 179. (6) Twenty-four and Thirty-three one Hundredth's Acres conveyed to C. E. Dolan by deed recorded in D. B. 39, page 203. The above conveyances totaling Three Hundred and Sixty-Four and Fifty-Eight one Hundredth's Acres. Therefore this conveyance from the James River Orchard Corporation to Charles D. Larus, Jr., contains Fourteen Hundred and Fifty-Seven and Seventy-Two One Hundredth's Acres, more or less. The property hereby conveyed may be further described as all of the land which was conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by deed above mentioned, which lies north and west of the main County Road from Howardsville to Warminister less the Eighty Acres conveyed to J. W. Proffitt et als and the Twenty-nine acres conveyed to Cattett as above set forth. This property is further sold subject to a timber contract between the James River Orchard Corporation and H. M. Harris dated December the 9th, 1913, and recorded in the Clerk's Office of the Nelson County Court in D. B. 39, page 563.

The party of the first part covenants that it has the right to convey the said land, that it has done no act to encumber the same except as above setforth; that the grantee shall have quiet possession free from all further encumbrances; and that the said party of the first part will execute such further assurance of the said land as may be requisite.

In Witness Whereof, The said James River Orchard Corporation has caused this deed to be signed, sealed and delivered in its name and behalf by R. H. Harwood, its President, and its Corporate seal to be hereto affixed,

attested by William Todd, its Secretary, the day and year first in this deed written.

(CORPORATE SEAL) The James River Orchard Corporation

By R. H. Harwood, President.

Attest:

William Todd, Secretary.

State of Virginia,

City of Richmond, to-wit:

I, G. Carrington Moseley, a Notary Public for the City aforesaid in said State, do certify that R. H. Harwood, President, and William Todd, Secretary of the James River Orchard Corporation whose names are signed to the foregoing writing, bearing date on the 6th day of July, 1914, have severally acknowledged the same before me in my said City. And the said R. H. Harwood, President, being duly sworn, says that this deed is made in pursuance of a unanimous resolution of the Board of Directors of said Corporation, as authorized by the Stockholders. And that the seal of the Corporation affixed to said writing is the corporate seal of the said party of the first part.

Given under my hand this 24th day of July, 1914.

G. Carrington Moseley.
Notary Public.

My commission expires)
October the 9th 1917 (

Virginia:

In Nelson County Circuit Court Clerk's Office July 27, 1914.

This deed and plat was presented in said office and, upon the certificate of acknowledgement thereto annexed, admitted to record.

Teste: E. L. Kidd, Clerk

A copy,

Teste: /S/ C. W. Embrey Clerk

Deed Book 39, pages 338-341

CHARLES D. LARUS, Jr., and WIFE

To) DEED B. & S.

DECKER CALL.

THIS DEED, made this 23rd. day of February, 1921, between Charles D. Larus, Jr., and Anne M. Larus, his wife, of the City of Richmond, Virginia, parties of the first part, and Decker Call, of Nelson County, Virginia, party of the second part;

WITNESSETH: That for and in consideration of the sum of One Thousand ninety-two and fifty one-hundredths ($1092.50) dollars, paid and secured to be paid, the said Charles D. Larus, Jr. and wife do grant unto the said Decker Call with General Warranty, all of a certain tract of land located in Nelson County, Virginia, Greenfield District, containing one hundred nine and one-fourth (109¼) acres, more or less, the same being a portion of the Lansville tract, which lays on the north side of the Howardsville and Warminister public road, and adjoins the lands of Horsley and Omohundro, C. E. Dolan, a part of the Lewis Estate, and the lands of Charles D. Larus, Jr. and more fully described in metes and bounds by plat of F. W. Swan, made Feby. 4th, 1921, which is hereto attached and made a part of this deed; and being a part of the land conveyed to the said Charles D. Larus, Jr., by deed from the James River Orchard Corporate date July 6th, 1914, and recorded in the Clerk's Office of the Nelson County Circuit Court in D. B. 39, page 338. The said parties of the first part hereby reserve the right to use for ingress and egress, the roads through the said land.

The said parties of the first part covenant that they have the right to convey the said land to the grantee, that they have done no act to encumber the said land; that the grantee shall have quiet possession of the said land, free from all encumbrances; and that the said parties of the first part will execute such further

assurances of the said land as may be requisite.

Witness the following signatures and seals:

Charles D. Larus, Jr., (seal)

Anne M. Larus (seal)

State of Virginia,
City of Richmond, to-wit:

I, Edw. L. Williams, a Notary Public, for the City aforesaid in the State of Virginia, do certify that Charles D. Larus, Jr. and Anne M. Larus, his wife, whose names are signed to the foregoing writing, bearing date on the 23rd. day of February, 1921, have acknowledged the same before me in my City aforesaid.
Given under my hand this 28th. day of February, 1921.
My commission expires March 13th, 1922.

Edw. L. Williams, Notary Public.

(Notary Seal)

VIRGINIA:

In the Clerk's Office of the Circuit Court of Nelson County, March 11th, 1921
This deed, with $2.00 Rev. Stamp affixed and cancelled, was this day received in said office and, with the certificate of acknowledgement, admitted to record at 11:30 o'clock A. M.

Teste:
C. W. Embrey, Clerk

A Copy, Teste: /S/ C. W. Embrey Clerk

Deed Book 46, page 111-112

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1577X

Date received 6-4-51

Participation

ESTATE OF CHARLES D. LAMB, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $40,000

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Nelson County, Virginia

Date of filing MF-100 May 16, 1951

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property? Owner
6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not applicable.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Applicant is prepared to invest $10,000.00, being 25% of the estimated cost of the testing planned.

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. Herewith. (a) and (b) are the same.

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

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Could be washed on property and shipped

*16. History: via C. & O. Ry. from Warminster Station (1½ miles) to ore buyers and mills.

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Manganese, open pits.

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

Estate of C. D. Laws, Jr.
Central National Bank of Richmond, Co-executor
(Name of company)

By [signature]
(Signature of authorized official)

May 16, 1951
(Date)

Vice President and Trust Officer
(Title)

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

*Same as footnote on page 1.

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

Sheet No. 1, Accompanying Form MF-103, submitted by ESTATE OF C. D. LARUS, JR.

Answer to Questions:

21. It is desired to test the mineralized zone of the Laynesville or Piedmont Tract, hereinbefore described, for commercial deposits of manganese ores. Guides to the tests will be the old workings and outcrops, which extend for a distance of from one to two miles across the property in a northeast-southwest direction. The ores occur in partially decomposed schists and residual clays in depths from grass roots to about 350 feet. Testing, estimated to require eight months time, will consist of clearing the old shafts and tunnels where deemed useful, and core drilling of outcrops and ore bodies encountered in the old workings. Two thousand feet of core drilling can be presently contracted at $5.00 per foot, the contractor furnishing labor. Dr. Haney's report (attached) states: "I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies."

22. Please see MF-100, herewith, accompanying papers, for reports on this tract. The only map available to the applicant, a property plat, is hereto attached.

23. <u>Requirements and Costs</u>. Assuming that the shaft and tunnel rehabilitation will require four months and the drilling will be underway for six months and that the labor estimate will not include drilling crews which are furnished by the contractor:

((a)	2,000 feet drilling at $5.00 per foot	$10,000
((a)	Labor (4 miners, 4 muckers, 2 handymen,	
(	1 waterboy, 1 foreman)	10,000
(b)	Supervisors (mining engineer, necessary time on job, $500/8 mos.),(consultant, overall supervision, fee $1,500), (supervisors' travel, $1,000)	6,500
(c)	Cost of necessary repairs (clearing roads, $800; timbering shafts, tunnels, $2,000)	2,800
(d)	Temporary office and tool house, storage, core handling	2,000
(e)	(It is believed that pumps, power and lighting units, trucks, etc. can be rented) Other items	1,000
(f)	Items in (e) mentioned as rentable	1,700
(g)	None	
(h)	Powder, miners' tools, wire, hose, etc., other than fuel	2,500
(i)	Gasoline (overall average 50 gallons daily @ 30¢/gal. delivered)	3,000
	Miscellaneous items	500
	Total above	$40,000

24. Time schedule (maximum, 8 months duration) and Money to be spent.

The answer must be somewhat flexible, depending upon how closely the

drilling follows reopening of the old workings. The following is assumed typical:

Month	Items	Expenditure therein
1st	Clear roads, $800; advance to contractor, $1,000; all of (d) above, $2,000; engineer, $500; travel, $100; purchase supplies, $1,000; gasoline in bulk, $200; advance rental (f) above, $500; 1 week of labor above, $600.	$6,700.00
2nd	Labor, $2,500; engineer, $500; travel, $150; consultant, $500; timber, etc. for shafts, $1,000; rental, $200; (e) above, $1,000; gasoline, etc. $500.	6,350.00
3rd	Labor, $2,500; engineer, $500; travel, $100; drilling 2 weeks, $1,000; gasoline, etc., $500; tunnel, etc. repair, $1,000; materials, supplies, $500; rentals, $200.	6,200.00
4th	Labor, $2,500; engineer, $500; travel, $100; drilling, $1,750; gasoline, etc., $500; rentals, $200; miscellaneous (i) above, $500.	6,050.00
5th	Labor 3 weeks, $1,800; engineer, $500; consultant, $500; travel, $150; drilling, $1,750; gasoline, etc., $500, rentals, $200; supplies, $500.	5,800.00
	Spent in first five months, as above	$31,800.00

For the sixth and remaining months of the test, the work will be confined to drilling and supervision. Supplies will be on hand or paid for and on call, the drilling fund will show a balance (at the end of the fifth month) of $5,500 plus a credit of $1,000, representing the advance to the contractor, so that ample funds remain to complete the work.

Jas. River Orchard Corp.

To) Deed for Land

Chas. D. Larus, Jr.

Richmond, Virginia, July 6, 1914.

At a meeting of the Board of Directors of The James River Orchard Corporation, held at its office this day all the Directors being present, the President stated that he had received an offer from Charles D. Larus, Jr., of Five Dollars and One Half ($5.50) per acre for the Fourteen Hundred and Fifty-Seven and Seventy Two one Hundredths acres of land, more or less, known as Laynesville near Warminister in Nelson County, Virginia, same being the entire remainder of the land now held by the James River Orchard Corporation; and on motion, and in pursuance of authority conferred upon the Board of Directors by the Stockholders at their meeting held this day, it was unanimously resolved to accept the said offer, and the President was authorized to sell the said property and to make, Execute and deliver to the said Charles D. Larus, Jr., a good and sufficient deed and to sign the name of this Corporation to said conveyance, and that the Secretary be authorized and directed to affix the seal of the said Corporation, and attest the same, and that the officers do acknowledge the same for recordation.

(CORPORATE SEAL) William Todd Secretary.

William Todd, Secretary.

This Deed, made this 6th day of July in the year 1941, between The James River Orchard Corporation, a Corporation under the laws of Virginia, (in pursuance if a resolution of its Board of Directors passed on the 6th day of July, 1914, an attested copy of which is attached to and made a part of this deed), party of the first part, and Charles D. Larus, Jr., of the City of Richmond, Virginia, party of the second part- Witnesseth.

That for and in consideration of the sum of Ten Dollars ($10.00) and other valuable considerations, receipt of which is

hereby acknowledged, the said party of the first part doth grant and convey with General Warranty, unto the said party of the second part the following described property in Nelson County, Virginia, bounded and described as follows, and delineated on a plat hereto attached which is made a part of this deed, to-wit:

Beginning for the same on the western most side of the James River at the mouth of Slaty Branch; and running thence, up said branch, in a westerly direction to a point marked "A" on said plat on the western most side of the right of way of the Chesapeake & Ohio Railway Company; thence, on the right of way of the Chesapeake & Ohio Railway Company, North, Three and one-half Degrees East, Twelve and Ninety-Hundredths' Poles; thence North Twelve and On-Fourth Degrees west, Thirteen Poles; Thence north Eighteen and three-quarters degrees East, Thirteen and Four-tenths Poles; Thence north Eighteen and One-Fourth Degrees East, Twenty-Seven and Three-Tenth's Poles to a point marked "B" on said Plat; thence North Eighty-Seven, and One-Half Degrees West, Fifty-Eight and Nine-Tenth's Poles to a Point marked "C" on said plat; thence South Two and One-Half Degrees west, Seventeen and Eight-Tenth's poles to Slaty Branch at a point marked "D" on said plat; thence, up and on Slaty Branch, One Hundred and Eighty-Two Poles to pointers; thence north, Fifty-Two Degrees West, One Hundred and Fourt poles to Pointers; thence north, Fourteen Degrees West, Forty-two poles to Pointers at the South East corner of the Cabell Mine Tract, as shown on said plat; thence, on said Cabell Mine Tract north, nineteen degrees west, one Hundred and Thirty-Eight poles to pointers, at the north-east corner of said Cabell mine Tract; thence north, Fifty-four Degrees East, Ninety poles; thence North Seventy Degrees East, Eighty-one poles to pointers; thence north Sixteen Degrees West, one hundred and Eighty-one poles to pointers

thence Norty Sixty-One Degrees East Forty-six poles; thence north Seventy-Eight Degrees East, Forty-Eight poles; thence North Fifty-nine Degrees East Seventy-Six poles to pointers; thence North Four and one-half Degrees East Sixty-four poles; thence north Twenty-Seven Degrees East Forty-Two poles to pointers; thence north Seventy-five Degrees East, one Hundred and Ten poles to pointers; thence South Two Degrees West, one Hundred and Thirty-Eight poles to pointers; thence South Eighty-Six Degrees East, fifty-six poles to pointers; thence South Forty-Eight Degrees west One Hundred and fifteen poles to pointers; thence South Twenty-Eight and one-half Degrees East, Forty-four poles to pointers; thence North Fifty-four Degrees East, Sixty-four poles; thence North Seventy-Nine Degrees East, thirty-three poles; thence north Forty-four Degrees East, Sixty-four poles to pointers; thence South Sixty-two Degrees East, Fifty-Seven poles to pointers; thence South Seven degrees west, 210 poles to pointers; thence South 19° East, 46 poles; thence South 2° West, 20 poles; thence South 43° East 54 poles to pointers; thence South Twenty-Three degrees west 12 poles; thence South 39° west, 16 poles; thence South 55° West, 18 poles; thence South 50° West, 12 poles; thence South 83° West, 31½ poles, thence South 21° West, 44 poles; thence South 20° East 86 poles; thence south 3° East 54 poles; thence North 79° West 9 poles; thence South Eighteen Degrees west, Eight poles to the James River and thence up and on the James River, 305 poles to Slaty Branch to the place og beginning- Containing eighteen hundred and Twenty-two and Thirty Hundredth's Acres of land, more or less, excepting therefrom the right of way and property of the Chesapeake & Ohio Railway Company. Being the same property conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by his deed dated September 30th, 1913, recorded in the Clerk's Office of Nelson County Court in D. B. 38, page 477. Less, the following tracts of land severally conveyed, to wit:

(1) One Hundred and six and one-half acres conveyed to H. D. Omohundro and J. L. Horsley by deed recorded in D. B. 38, page 573. (2) Eighty Acres conveyed to J. W. Proffitt et als by deed recorded in D. B. 39, page 2. (3) Seven and one-quarter acres conveyed to J. R. Cunningham by deed Recorded in D. B. 39, page 5. (4) Twenty-nine acres conveyed to J. C. Cettell by deed recorded in D. B. 39, page 24. (5) One Hundred and seventeen and one-half acres conveyed to Omohundro and Horsley by deed recorded in D. B. 39, page 179. (6) Twenty-four and Thirty-three one Hundredth's Acres conveyed to C. E. Dolan by deed recorded in D. B. 39, page 203. The above conveyances totaling Three Hundred and Sixty-Four and Fifty-Eight one Hundredth's Acres. Therefore this conveyance from the James River Orchard Corporation to Charles D. Larus, Jr., contains Fourteen Hundred and Fifty-Seven and Seventy-Two One Hundredth's Acres, more or less. The property hereby conveyed may be further described as all of the land which was conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by deed above mentioned, which lies north and west of the main County Road from Howardsville to Warminister less the Eighty Acres conveyed to J. W. Proffitt et als and the Twenty-nine acres conveyed to Cattett as above set forth. This property is further sold subject to a timber contract between the James River Orchard Corporation and H. M. Harris dated December the 9th, 1913, and recorded in the Clerk's Office of the Nelson County Court in D. B. 39, page 563.

The party of the first part covenants that it has the right to convey the said land, that it has done no act to encumber the same except as above setforth; that the grantee shall have quiet possession free from all further encumbrances; and that the said party of the first part will execute such further assurance of the said land as may be requisite.

In Witness Whereof, The said James River Orchard Corporation has caused this deed to be signed, sealed and delivered in its name and behalf by R. H. Harwood, its President, and its Corporate seal to be hereto affixed,

attested by William Todd, its Secretary, the day and year first in this deed written.

(CORPORATE SEAL) The James River Orchard Corporation

By R. H. Harwood, President.

Attest:

William Todd, Secretary.

State of Virginia,

City of Richmond, to-wit:

I, G. Carrington Moseley, a Notary Public for the City aforesaid in said State, do certify that R. H. Harwood, President, and William Todd, Secretary of the James River Orchard Corporation whose names are signed to the foregoing writing, bearing date on the 6th day of July, 1914, have severally acknowledged the same before me in my said City. And the said R. H. Harwood, President, being duly sworn, says that this deed is made in pursuance of a unanimous resolution of the Board of Directors of said Corporation, as authorized by the Stockholders. And that the seal of the Corporation affixed to said writing is the corporate seal of the said party of the first part.

Given under my hand this 24th day of July, 1914.

G. Carrington Moseley.
Notary Public.

My commission expires)
October the 9th 1917 (

Virginia:

In Nelson County Circuit Court Clerk's Office July 27, 1914.

This deed and plat was presented in said office and, upon the certificate of acknowledgement thereto annexed, admitted to record.

Teste: E. L. Kidd, Clerk

A copy,

Teste: /S/ C. W. Embrey Clerk

Deed Book 39, pages 338-341

CHARLES D. LARUS, Jr., and WIFE

To) DEED B. & S.

DECKER CALL.

THIS DEED, made this 23rd. day of February, 1921, between Charles D. Larus, Jr., and Anne M. Larus, his wife, of the City of Richmond, Virginia, parties of the first part, and Decker Call, of Nelson County, Virginia, party of the second part;

WITNESSETH: That for and in consideration of the sum of One Thousand ninety-two and fifty one-hundredths ($1092.50) dollars, paid and secured to be paid, the said Charles D. Larus, Jr. and wife do grant unto the said Decker Call with General Warranty, all of a certain tract of land located in Nelson County, Virginia, Greenfield District, containing one hundred nine and one-fourth (109¼) acres, more or less, the same being a portion of the Lansville tract, which lays on the north side of the Howardsville and Warminister public road, and adjoins the lands of Horsley and Omohundro, C. E. Delan, a part of the Lewis Estate, and the lands of Charles D. Larus, Jr. and more fully described in metes and bounds by plat of F. W. Swan, made Feby. 4th. 1921, which is hereto attached and made a part of this deed; and being a part of the land conveyed to the said Charles D. Larus, Jr., by deed from the James River Orchard Corporate date July 6th, 1914, and recorded in the Clerk's Office of the Nelson County Circuit Court in D. B. 39, page 338. The said parties of the first part hereby reserve the right to use for ingress and egress, the roads through the said land.

The said parties of the first part covenant that they have the right to convey the said land to the grantee, that they have done no act to encumber the said land; that the grantee shall have quiet possession of the said land, free from all encumbrances; and that the said parties of the first part will execute such further

assurances of the said land as may be requisite.

Witness the following signatures and seals:

Charles D. Larus, Jr., (seal)

Anne M. Larus (seal)

State of Virginia,
City of Richmond, to-wit:

I, Edw. L. Williams, a Notary Public, for the City aforesaid in the State of Virginia, do certify that Charles D. Larus, Jr. and Anne M. Larus, his wife, whose names are signed to the foregoing writing, bearing date on the 23rd. day of February, 1921, have acknowledged the same before me in my City aforesaid.
Given under my hand this 28th. day of February, 1921.
My commission expires March 13th, 1922.

Edw. L. Williams, Notary Public.

(Notary Seal)

VIRGINIA:

In the Clerk's Office of the Circuit Court of Nelson County, March 11th, 1921
This deed, with $2.00 Rev. Stamp affixed and cancelled, was this day received in said office and, with the certificate of acknowledgement, admitted to record at 11:30 o'clock A. M.

Teste:
C. W. Embrey, Clerk

A Copy, Teste: /S/ C. W. Embrey Clerk

Deed Book 46, page 111-112

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
Executive Secretary

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dmal 1577X

Date received 6-4-51

ESTATE OF CHARLES D. LARUS, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D".) (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Estate of Charles D. Larus, Jr., (deceased), Central National Bank of Richmond, Co-Executor Mr. W. B. Jacobs, V. Pres. & Trust Officer, Richmond, Va.							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	As far as can be ascertained, the Piedmont (Laynesville) and adjoining mines under the same ownership at that time, produced 5,000 tons of high grade (82.5%) manganese peroxide, shipped to England in 1868-71. The Cabell, Piedmont, Bugley, Simpson and Davis mines, close to one another, are said to have shipped 18,000 tons of washed ore.				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Estimated production at rate of 100 tons daily.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. Please see answer to Question 7 hereof, and accompanying papers.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	None measured at the present time. Object of testing is to locate such reserves and prepare estimates.				
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Estate of Charles D. Larus, Jr. (deceased)
The Central National Bank of Richmond,
Co-Executor
(Name of company)

By [signature]
(Signature of authorized official)

May 16, 1951
(Date)

Vice President and Trust Officer.
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Sheet Number 1, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Answers to Questions:

1. Materials produced. (a) This is an application to explore old workings and undeveloped acreage for manganese.

   (b) None.

2. Known as the Laynesville property. Formerly known as the Piedmont Mine. Mining consisted of open pits and quarrying. Testing will be by drilling and some test pits and drifting.

   (a) Linear feet of sharts (old workings, as far as known) approximately 400 feet (see report of Dr. Marshall Haney herewith).
   (b) Linear feet of drifts and crosscuts: approximately 250 feet.
   (c) Included with (b).
   (d) Many test pits on the property, dug between 1870 and 1919.

   The water table on this property stood at about 100 feet below the surface during the previous operations. The open pits, including a very large one on the adjoining Cabell mine, are not flooded. In some of the shafts water stands within fifteen feet of the collars but the flow is not known. Water conditions would not affect drilling. The property occupies the crest of a low ridge and water would prove no serious problem to modern mining.

   Size of productive capacity cannot be known prior to the testing subject of this application, but the reported former production of the adjoining Cabell open pit property (with which the production of the Laynesville-Piedmont mine is lumped according to Dr. Haney) of 100 tons of washed ore daily would be the minimum desiratum.

3. (a) Nearest village (crossroads settlement) is Warminster, 1.5 miles south of the mine. Warminster is a station on the James River division of the Chesapeake & Ohio Railway. The mine lies about 50 miles south of Charlottesville and 47 miles northeast of Lynchburg, Virginia. The Nelson County seat is Lovingston, on U. S. 29 (Lynchburg to Washington), 13 miles from the mine.

   (b) and (c) Mining District, Section and Range are not used in Virginia.

   (d) Nelson County, Virginia.

4. (a) Property is not in operation.

   (b) If manganese is found in commercial deposits, property would be leased or sold to an experienced mining company.

5. Records indicate that the mine was in development or operation in 1868-71, 1887-88, and again in 1916-17. As stated in 2(d) above, production from this property was probably consolidated with that from the adjoining Cabell Mine.

Given the open pit nature of the deposit, production could start within six months of commencement of work.

6. General business experience of the applicant. The Larus Estate is managed by the Central National Bank of Richmond. It is anticipated that if the loan herein appoied for is granted, the testing will be directed by an experienced mining engineer such as Dr. Marshall Haney of Takoma Park, Maryland (see Who's Who in Engineering), under the general supervision of John E. Kelly, Consultant in Natural Resources, Washington 5, D. C. (see Who's Who in Commerce & Industry, Vol. 6; Who's Who in the East, Vol. 2, etc.)

7. (a, b, c.) History of the property, as known to the applicant, is contained in the following accounts hereto attached:

Preliminary report by Dr. Marshall Haney
Excerpt from "Mineral Resources of Virginia"
Excerpt from "Geology and Mineral Deposits of the James-River-Roanoke River Manganese District"
Excerpt from "Mineral Resources of the United States"
Records at the Nelson County Courthouse show that the late Charles D. Larus, Jr., acquired the property in Nelson County, Virginia, known as the Laynesville Tract, containing approximately 1,344 acres, on July 6, 1914.

On May 12, 1916, Mr. Larus entered into a lease with J. G. Hancock of Chicago, Illinois, said lease setting forth that the lessee was to explore, develop and mine the manganese deposits in the property. During the First World War, Mr. Larus negotiated a sale of the property to the Japanese Government, then an ally seeking manganese. It is understood that the price was $50,000, but apparently the Armistice prevented consummation of the transaction.

Dr. Haney remembers seeing an exhaustive report made in the 1920's by Mr. Kirby Thomas on this property, but no copy of this has been unearthed to date. Mr. Thomas was a leading mining engineer, established in New York, who died about 1932.

13. Access Roads. Access to the mineralized zone from the county road (water-bound macadam, oiled, now being improved and regraded) is from 3/4 to 2.0 miles, depending on the point of departure. From the county road old timber and mining roads lead through a lightly wooded area (tree diameter rarely over ten inches) to the sites of the mines and prospect pits. These could be opened with little effort by an axeman and would suffice in dry weather for the use of drilling crews testing the property.

14. All reports speak of abundant water. Water for drilling could be pumped from one of the old shafts reported by Dr. Haney, from an all-year creek, from a large spring reported by Dr. Espenshade, or by drilling a water well 100 to 150 feet in depth to tap the water table.

15. Drilling would be powered by gasoline.

Sheet No. 3, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

16. In addition to drilling crews (2 shifts, totalling 16 hours daily), 4 miners, 4 muckers, 2 general handymen, 1 waterboy and 1 foreman would carry on the exploration, under the direction of a mining engineer. The drilling would be contracted, contractor to furnish and pay his crews.

17. Equipment and facilities presently available: None.

18. No.

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

PRELIMINARY REPORT* ON THE MANGANESE RESOURCES OF THE LAYNESVILLE TRACT IN NELSON COUNTY, VIRGINIA

By

Marshall Haney
Mining Engineer
Geer, Virginia

Location

This property consisting of 1457 acres is located in the southeast portion of Nelson County, Virginia, and about two miles from Warminster, a station on the James River Division of the C. & O. R. R. which is about 100 miles from Richmond, Va. and 47 miles from Lynchburg, Va. The shipping facilities are ideal. The haul from the mines would be all downgrade to the railroad and the ore could be hauled over the earth road by trucks or by a wire rope tramway to storage bins on the railroad.

The C. & O. R. R. gives direct connections with tidewater at Newport News, Va. and rail connections north and south at Richmond, Va., North and south connections over the Southern Railway at Lynchburg, Va., and east and west connections over the N. & W. R. R.

The C. & O. R. R. forms a direct connection with the furnaces located along the Ohio and Mississippi Rivers which consume large quantities of manganese ore.

General Geology

The surface of the property rises from the James River and at the highest point reaches an elevation of about 250 feet.

This property is in the manganese ore bearing formation which is known as the James River belt and extends in a northeasterly direction from Pittsylvania County to Albemarle County and includes portions of Bedford, Campbell, Amherst, Appomattox, Nelson and Buckingham Counties.

The country rock is exposed along north side of the property, on the southwest portion it is a decomposed micaceous sandstone and on the northeast end it is decomposed granite. The ore bearing formation on this property is two miles long.

History

This property joins the Cabell Manganese Mine and is near the Simpson, Bugley and Davis mines, all of these mines are on the same ore bearing formation.

Mining started in this vicinity in the '80's. The geological survey literature states that the above named mines produced about 18,000 tons of high

* Dated 1932

grade manganese ore. The Cabell mine produced 5,000 tons which was shipped to England. I have been unable to find a record of the production from Laynesville, and I am of the opinion that the Laynesville production was listed with the Cabell production as the Cabell and Laynesville at that period was owned by the same party and in all probability a large part of the Cabell production was mined on what is known at this time as the Laynesville property.

The early operators confined their efforts to the ore located near the surface, most of their work was open cuts.

During the early '80's a group of English capitalists made plans to develop this property. They built a steam power plant and a shaft was sunk to the depth of 150 feet and when ready for production an accident happened which killed several men. This caused a temporary shut down which was followed by unfavorable market conditions resulting in a permanent steppage of work.

Starting in at a point near the Cabell mine and going in a northeast direction along the line of the strike of the ore bearing formation we come to the old workings in the following order: Shaft 70 feet deep, now caved except first 15 feet in which some small seams are exposed. Shaft 150 feet, about 20 feet at surface open. Shaft 40 feet, about 10 feet at surface open. Shallow shaft connected with a shaft tunnel, some ore near mouth of tunnel. A shaft of unknown depth, but from the amount of material on the dumps I am of the opinion that it must be over 100 feet. The upper 15 feet is caved, the remaining portion is under water, and the first class timbers appear to be perfectly preserved.

Portal of a caved tunnel 150 feet long driven in the ridge.

The last named work is one and one-fourth miles from the Cabell line and the remaining three-fourth mile on Laynesville is without development.

Mr. A. C. Horsley, of Warminster, who showed me over the property told me that some years ago he picked enough ore from the old dumps to ship some eight or ten cars of ore, this being the second picking over the dump. Another party picked over them when he was quite a young man.

Analyses of Ore

Manganese (metallic)	38.89
Iron	5.61
Silica	15.81
Phosphorous	.013
Sulphur	.015

The above analyses is an average secured from the old dumps. In view of the fact that these dumps have been picked over and the best ore shipped on two previous occasions, I think it would be fair to say that the above analyses represents the third grade ore, and I am of the opinion that the better grade of ore will run 50% or more in metallic manganese and correspondingly lower in impurities which would put it in the class of extra good ore.

Due to the caved conditions of the old workings I was unable to get in them and get a sample of the best ore.

Conclusion

This property in its present physical condition can not be classed as a proven mine but an extra good prospect worthy of exploration.

I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies.

Last year (1931) in about four months time I completed 130 feet of shaft and drift work, timbered in a first class manner, and 40 feet of open pit work at a cost of $2,000.00. I am giving these figures for comparison.

I am of the opinion that the same work on this property could be done for less, due to the fact that conditions are more favorable in mining, labor and dupplies.

The chance element would be 8 to 2 in favor of locating commercial ore bodies providing the work is given proper technical supervision.

/s/ Marshall Haney
Marshall Haney
Certified Mining Engineer
Virginia Certificate No. 1

Geer, Virginia
January 28, 1932

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of Virginia", prepared for the Virginia Jamestown Exposition Commission by Dr. Thomas Leonard Watson, Professor of Economic Geology in the University of Virginia.

"In the past years, several deposits of manganese ores have been somewhat extensively marked in Nelson County, although the ore is not mined to the writer's knowledge at any point in the county at present. (1907) The ore occurs in the Southeastern portion of the County, located about 2 miles north of the James River, in the vicinity of Warminster and Midway Mills, stations on the Chesapeake & Ohio Railway. The occurrence of ores is in the form of pockets in the residual clays of the crystalline schists. Four mines have produced considerable ore. These are the Cabell, Bugley, Simpson and Davis. The Cabell mine, located within 2 miles of Warminster, has not been worked since 1871. (Was worked again after date of this book.) In 1868 and 1869, 5,000 tons of ore were mined and shipped to Newcastle-on-Tyne. A reported analysis of this ore shows 82.25% of manganese peroxide. Two other analyses of ore from this mine are reported by Weeks in the Mineral Resources of the United States for 1885 as follows:

	%	%
Manganese (metallic)	43.30	43.02
Iron (metallic)	3.67	4.24
Phosphorous	.243	.182
Silica	17.45	18.51

The Bugley mine, located about half a mile southwest of the Cabell, was worked about the same time and is said to have yielded about 2,000 tons of ore.

Southwest of Warminster, at Midway Mills, the Simpson mine was worked in 1882, produced 12,000 tons of high grade ore, shipped to Liverpool, England. The mine was developed by a shaft 150 feet deep which had to be abandoned because of flooding from water. The grade of ore is reported to have improved with depth; that above the water level yielded 70% of M_nO_2, that below the water legel 80 to 85%.

The Davis mine, operated in the early 80's, is said to have produced 1,000 tons of ore. Weeks quotes the following analysis made of a selected sample of the ore:

	%
M_nO_2	90.42
Iron sesquioxide	2.24
Alumina	1.13
Lime	1.22
Magnesia	2.28
Silica	1.12
Phosphoric acid	.43
Water	1.25
Iron (metallic)	1.56
Manganese (metallic)	57.16
Phosphorous	.188

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Ercerpt from unpublished manuscript: "Geology and Mineral Resources of the James River - Roanoke River Manganese District, Virginia", by Gilbert H. Espenshade. United States Geological Survey. (Field work 1942).

Typescript, page 164: "The principal deposits of Nelson County lie near Warminster, midway between Rockfish River and Buffalo River. The manganese deposits are associated with the quartzite member of the Mt. Athos formation which is enclosed in fissile chlorite-muscovite schists. Some marble is noted, principally at depth. Mining has taken place for four miles along the strike of the quartzite bed. The principal mines from northeast to southwest are the Piedmont (Laynesville - Larus), Cabell, Bugley and Simpson. These mines were active between 1868 and 1887; 8,000 to 9,000 tons of washed ore were shipped. Some prospecting and mining was done during World Wars I and II. The Cabell and Bugley mines were explored by the U. S. Bureau of Mines in 1942. (Dr. Espenshade accompanied the Bureau of Mines party.)

Typescript, page 165: "The Piedmont, or Laynesville, mine is about 1.5 miles north of Warminster on property owned by C. D. Larus, Jr., of Richmond, Virginia. According to Mr. A. C. Horsley, of Manteo (nearby), the first work on this property was done about 1887 by a Mr. Miller. At a point half a mile northeast of the Cabell Mine, a tunnel was driven, and a shaft sunk to a depth of about 150 feet (locality 3, plate 1). Considerable water was encountered which could not be pumped out satisfactorily, altho a 12-inch pump was installed. The mine was closed down after a serious accident that killed two of the miners. No ore is reported to have been shipped (conflicts with statement in Dr. Haney's report) from the time at this time. In 1917 a shaft was sunk near the old shaft to a depth of 100 feet by Messrs. Hancock and Bondron, and a drift run to the old workings. No high-grade ore was found (see Dr. Haney's report), altho 21 tons of low grade ore was shipped which analyzed 35% MnO_2, 3.6% Fe and 31.8% SiO_2; presumably this was cherty ore of the type occurring on the dump. Quartzite, wad, and yellow chert with nodular manganese minerals are present on the dump of these workings. A fifth of a mile to the northeast are two old pits about 10 feet deep (locality 2, plate 1). Rotten quartzite is exposed in the pits, and some chert with nodular manganese oxides is scattered on the dumps. Two-fifths of a mile further northeast is an old water-filled shaft (locality 1, plate 1); the dump is composed of white and grey dolomitic marble but no manganese ore is visible."

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of the United States", 1885, page 312.

"Nelson County - In Nelson County several deposits of manganese have been worked quite extensively in past years, though no ore is now mined. These deposits are found in the ore belt of the James River already described, the belt running nearly parallel to the river and about 2 miles from the left or northwest bank. The manganese shows generally in small quantities on the surface, the deposit widening as it goes down. The manganese is found in pockets and usually in clay.

"From what is known as the Cabell mine, two miles from Warminster depot, on the Richmond and Alleghany Railroad, some 5,000 tons of manganese were taken in 1868, and shipped to Newcastle-on-Tyne. The mine has not been worked since 1871. An analysis of the ore showed 82.25 percent of manganese peroxide.

"About half a mile southwest of Cabell mine is a deposit known as the Bugley mine, which was worked about the same time and yielded about 2,000 tons of ore.

"At Midway Mills is a deposit on the land of Mr. G. F. Simpson, which was worked in 1882 and yielded some 1,200 tons of first class ore. The mine was worked by shaft to the depth of 165 feet, when it was drowned out. The ore above the water line is said to have shown some 70 per cent oxide, but below the line it was much richer, 80 to 85 per cent. The entire product was marketed in Liverpool.

"At the Davis mine in Nelson county, an ore giving from a picked specimen the following analysis was at one time mined, though operations are now suspended: . . . . . Some 1,000 tons have been taken from this mine, though none in the last year."

Form MF-100
(March 1951)

U. DEPARTMENT OF THE INTERI
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA

FOR USE UNDER THE

DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dmal 1577 X

Date received 6-4-51

ESTATE OF CHARLES D. LANG, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Estate of Charles D. Larus, Jr., (deceased), Central National Bank of Richmond, Co-Executor Mr. R. D. Jacobs, V. Pres. & Trust Officer, Richmond, Va.							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	As far as can be ascertained, the Piedmont (Laynesville) and adjoining mines under the same ownership at that time, produced 5,000 tons of high grade (82.5%) manganese peroxide, shipped to England in 1868-71. The Cobell, Piedmont, Bugley, Simpson and Davis mines, close to one another, are said to have shipped 18,000 tons of washed ore.				
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Estimated production at rate of 100 tons daily.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves. Please see answer to Question 7 hereof, and accompanying papers.

(b) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	None measured at the present time. Object of testing is to locate such reserves and prepare estimates.				
Indicated (probable)					

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Estate of Charles D. Larus, Jr. (deceased)
The Central National Bank of Richmond,
Co-Executor
(Name of company)

By [signature]
(Signature of authorized official)

May 16, 1951
(Date)

Vice President and Trust Officer.
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. SIMPSON
Executive Secretary

Sheet Number 1, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Answers to Questions:

1. Materials produced. (a) This is an application to explore old workings and undeveloped acreage for manganese.

   (b) None.

2. Known as the Laynesville property. Formerly known as the Piedmont Mine. Mining consisted of open pits and quarrying. Testing will be by drilling and some test pits and drifting.

   (a) Linear feet of shafts (old workings, as far as known) approximately 400 feet (see report of Dr. Marshall Haney herewith).
   (b) Linear feet of drifts and crosscuts: approximately 250 feet.
   (c) Included with (b).
   (d) Many test pits on the property, dug between 1870 and 1919.

   The water table on this property stood at about 100 feet below the surface during the previous operations. The open pits, including a very large one on the adjoining Cabell mine, are not flooded. In some of the shafts water stands within fifteen feet of the collars but the flow is not known. Water conditions would not affect drilling. The property occupies the crest of a low ridge and water would prove no serious problem to modern mining.

   Size of productive capacity cannot be known prior to the testing subject of this application, but the reported former production of the adjoining Cabell open pit property (with which the production of the Laynesville-Piedmont mine is lumped according to Dr. Haney) of 100 tons of washed ore daily would be the minimum desiratum.

3. (a) Nearest village (crossroads settlement) is Warminster, 1.5 miles south of the mine. Warminster is a station on the James River division of the Chesapeake & Ohio Railway. The mine lies about 50 miles south of Charlottesville and 47 miles northeast of Lynchburg, Virginia. The Nelson County seat is Lovingston, on U. S. 29 (Lynchburg to Washington), 13 miles from the mine.

   (b) and (c) Mining District, Section and Range are not used in Virginia.

   (d) Nelson County, Virginia.

4. (a) Property is not in operation.

   (b) If manganese is found in commercial deposits, property would be leased or sold to an experienced mining company.

5. Records indicate that the mine was in development or operation in 1868-71, 1887-88, and again in 1916-17. As stated in 2(d) above, production from this property was probably consolidated with that from the adjoining Cabell Mine.

Given the open pit nature of the deposit, production could start within six months of commencement of work.

6. General business experience of the applicant. The Larus Estate is managed by the Central National Bank of Richmond. It is anticipated that if the loan herein appoied for is granted, the testing will be directed by an experienced mining engineer such as Dr. Marshall Haney of Takoma Park, Maryland (see Who's Who in Engineering), under the general supervision of John E. Kelly, Consultant in Natural Resources, Washington 5, D. C. (see Who's Who in Commerce & Industry, Vol. 6; Who's Who in the East, Vol. 2, etc.)

7. (a, b, c.) History of the property, as known to the applicant, is contained in the following accounts hereto attached:

Preliminary report by Dr. Marshall Haney
Excerpt from "Mineral Resources of Virginia"
Excerpt from "Geology and Mineral Deposits of the James-River-Roanoke River Manganese District"
Excerpt from "Mineral Resources of the United States"
Records at the Nelson County Courthouse show that the late Charles D. Larus, Jr., acquired the property in Nelson County, Virginia, known as the Laynesville Tract, containing approximately 1,344 acres, on July 6, 1914.

On May 12, 1916, Mr. Larus entered into a lease with J. G. Hancock of Chicago, Illinois, said lease setting forth that the lessee was to explore, develop and mine the manganese deposits in the property. During the First World War, Mr. Larus negotiated a sale of the property to the Japanese Government, then an ally seeking manganese. It is understood that the price was $50,000, but apparently the Armistice prevented consummation of the transaction.

Dr. Haney remembers seeing an exhaustive report made in the 1920's by Mr. Kirby Thomas on this property, but no copy of this has been unearthed to date. Mr. Thomas was a leading mining engineer, established in New York, who died about 1932.

13. Access Roads. Access to the mineralized zone from the county road (water-bound macadam, oiled, now being improved and regraded) is from 3/4 to 2.0 miles, depending on the point of departure. From the county road old timber and mining roads lead through a lightly wooded area (tree diameter rarely over ten inches) to the sites of the mines and prospect pits. These could be opened with little effort by an axeman and would suffice in dry weather for the use of drilling crews testing the property.

14. All reports speak of abundant water. Water for drilling could be pumped from one of the old shafts reported by Dr. Haney, from an all-year creek, from a large spring reported by Dr. Espenshade, or by drilling a water well 100 to 150 feet in depth to tap the water table.

15. Drilling would be powered by gasoline.

Sheet No. 3, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

16. In addition to drilling crews (2 shifts, totalling 16 hours daily), 4 miners, 4 muckers, 2 general handymen, 1 waterboy and 1 foreman would carry on the exploration, under the direction of a mining engineer. The drilling would be contracted, contractor to furnish and pay his crews.

17. Equipment and facilities presently available: None.

18. No.

Sheet No. _____, Accompanying Form MF-100, submitted ESTATE OF C. D. LARUS, JR.

PRELIMINARY REPORT* ON THE MANGANESE RESOURCES OF THE LAYNESVILLE TRACT IN NELSON COUNTY, VIRGINIA

By

Marshall Haney
Mining Engineer
Geer, Virginia

Location

This property consisting of 1457 acres is located in the southeast portion of Nelson County, Virginia, and about two miles from Warminster, a station on the James River Division of the C. & O. R. R. which is about 100 miles from Richmond, Va. and 47 miles from Lynchburg, Va. The shipping facilities are ideal. The haul from the mines would be all downgrade to the railroad and the ore could be hauled over the earth road by trucks or by a wire rope tramway to storage bins on the railroad.

The C. & O. R. R. gives direct connections with tidewater at Newport News, Va. and rail connections north and south at Richmond, Va., North and south connections over the Southern Railway at Lynchburg, Va., and east and west connections over the N. & W. R. R.

The C. & O. R. R. forms a direct connection with the furnaces located along the Ohio and Mississippi Rivers which consume large quantities of manganese ore.

General Geology

The surface of the property rises from the James River and at the highest point reaches an elevation of about 250 feet.

This property is in the manganese ore bearing formation which is known as the James River belt and extends in a northeasterly direction from Pittsylvania County to Albemarle County and includes portions of Bedford, Campbell, Amherst, Appomattox, Nelson and Buckingham Counties.

The country rock is exposed along north side of the property, on the southwest portion it is a decomposed micaceous sandstone and on the northeast end it is decomposed granite. The ore bearing formation on this property is two miles long.

History

This property joins the Cabell Manganese Mine and is near the Simpson, Bugley and Davis mines, all of these mines are on the same ore bearing formation.

Mining started in this vicinity in the '80's. The geological survey literature states that the above named mines produced about 18,000 tons of high

* Dated 1932

grade manganese ore. The Cabell mine produced 5,000 tons which was shipped to England. I have been unable to find a record of the production from Laynesville, and I am of the opinion that the Laynesville production was listed with the Cabell production as the Cabell and Laynesville at that period was owned by the same party and in all probability a large part of the Cabell production was mined on what is known at this time as the Laynesville property.

The early operators confined their efforts to the ore located near the surface, most of their work was open cuts.

During the early '80's a group of English capitalists made plans to develop this property. They built a steam power plant and a shaft was sunk to the depth of 150 feet and when ready for production an accident happened which killed several men. This caused a temporary shut down which was followed by unfavorable market conditions resulting in a permanent stoppage of work.

Starting in at a point near the Cabell mine and going in a northeast direction along the line of the strike of the ore bearing formation we come to the old workings in the following order: Shaft 70 feet deep, now caved except first 15 feet in which some small seams are exposed. Shaft 150 feet, about 20 feet at surface open. Shaft 40 feet, about 10 feet at surface open. Shallow shaft connected with a shaft tunnel, some ore near mouth of tunnel. A shaft of unknown depth, but from the amount of material on the dumps I am of the opinion that it must be over 100 feet. The upper 15 feet is caved, the remaining portion is under water, and the first class timbers appear to be perfectly preserved.

Portal of a caved tunnel 150 feet long driven in the ridge.

The last named work is one and one-fourth miles from the Cabell line and the remaining three-fourth mile on Laynesville is without development.

Mr. A. C. Horsley, of Warminster, who showed me over the property told me that some years ago he picked enough ore from the old dumps to ship some eight or ten cars of ore, this being the second picking over the dump. Another party picked over them when he was quite a young man.

<u>Analyses of Ore</u>

Manganese (metallic)	38.89
Iron	5.61
Silica	15.81
Phosphorous	.013
Sulphur	.015

The above analyses is an average secured from the old dumps. In view of the fact that these dumps have been picked over and the best ore shipped on two previous occasions, I think it would be fair to say that the above analyses represents the third grade ore, and I am of the opinion that the better grade of ore will run 50% or more in metallic manganese and correspondingly lower in impurities which would put it in the class of extra good ore.

Due to the caved conditions of the old workings I was unable to get in them and get a sample of the best ore.

Conclusion

This property in its present physical condition can not be classed as a proven mine but an extra good prospect worthy of exploration.

I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies.

Last year (1931) in about four months time I completed 130 feet of shaft and drift work, timbered in a first class manner, and 80 feet of open pit work at a cost of $2,000.00. I am giving these figures for comparison.

I am of the opinion that the same work on this property could be done for less, due to the fact that conditions are more favorable in mining, labor and dupplies.

The chance element would be 8 to 2 in favor of locating commercial ore bodies providing the work is given proper technical supervision.

/s/ Marshall Haney
Marshall Haney
Certified Mining Engineer
Virginia Certificate No. 1

Geer, Virginia
January 28, 1932

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of Virginia", prepared for the Virginia Jamestown Exposition Commission by Dr. Thomas Leonard Watson, Professor of Economic Geology in the University of Virginia.

"In the past years, several deposits of manganese ores have been somewhat extensively marked in Nelson County, although the ore is not mined to the writer's knowledge at any point in the county at present. (1907) The ore occurs in the Southeastern portion of the County, located about 2 miles north of the James River, in the vicinity of Warminster and Midway Mills, stations on the Chesapeake & Ohio Railway. The occurrence of ores is in the form of pockets in the residual clays of the crystalline schists. Four mines have produced considerable ore. These are the Cabell, Bugley, Simpson and Davis. The Cabell mine, located within 2 miles of Warminster, has not been worked since 1871. (Was worked again after date of this book.) In 1868 and 1869, 5,000 tons of ore were mined and shipped to Newcastle-on-Tyne. A reported analysis of this ore shows 82.25% of manganese peroxide. Two other analyses of ore from this mine are reported by Weeks in the Mineral Resources of the United States for 1885 as follows:

	%	%
Manganese (metallic)	43.30	43.02
Iron (metallic)	3.67	4.24
Phosphorous	.243	.182
Silica	17.45	18.51

The Bugley mine, located about half a mile southwest of the Cabell, was worked about the same time and is said to have yielded about 2,000 tons of ore.

Southwest of Warminster, at Midway Mills, the Simpson mine was worked in 1882, produced 12,000 tons of high grade ore, shipped to Liverpool, England. The mine was developed by a shaft 150 feet deep which had to be abandoned because of flooding from water. The grade of ore is reported to have improved with depth; that above the water level yielded 70% of M_nO_2, that below the water legal 80 to 85%.

The Davis mine, operated in the early 80's, is said to have produced 1,000 tons of ore. Weeks quotes the following analysis made of a selected sample of the ore:

	%
M_nO_2	90.42
Iron sesquioxide	2.24
Alumina	1.13
Lime	1.22
Magnesia	2.28
Silica	1.12
Phosphoric acid	.43
Water	1.25
Iron (metallic)	1.56
Manganese (metallic)	57.16
Phosphorous	.188

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from unpublished manuscript: "Geology and Mineral Resources of the James River - Roanoke River Manganese District, Virginia", by Gilbert H. Espenshade. United States Geological Survey. (Field work 1942).

Typescript, page 164: "The principal deposits of Nelson County lie near Warminster, midway between Rockfish River and Buffalo River. The manganese deposits are associated with the quartzite member of the Mt. Athos formation which is enclosed in fissile chlorite-muscovite schists. Some marble is noted, principally at depth. Mining has taken place for four miles along the strike of the quartzite bed. The principal mines from northeast to southwest are the Piedmont (Laynesville - Larus), Cabell, Bugley and Simpson. These mines were active between 1868 and 1887; 8,000 to 9,000 tons of washed ore were shipped. Some prospecting and mining was done during World Wars I and II. The Cabell and Bugley mines were explored by the U. S. Bureau of Mines in 1942. (Dr. Espenshade accompanied the Bureau of Mines party.)

Typescript, page 165: "The Piedmont, or Laynesville, mine is about 1.5 miles north of Warminster on property owned by C. D. Larus, Jr., of Richmond, Virginia. According to Mr. A. C. Horsley, of Manteo (nearby), the first work on this property was done about 1887 by a Mr. Miller. At a point half a mile northeast of the Cabell Mine, a tunnel was driven, and a shaft sunk to a depth of about 150 feet (locality 3, plate 1). Considerable water was encountered which could not be pumped out satisfactorily, althe a 12-inch pump was installed. The mine was closed down after a serious accident that killed two of the miners. No ore is reported to have been shipped (conflicts with statement in Dr. Haney's report) from the time at this time. In 1917 a shaft was sunk near the old shaft to a depth of 100 feet by Messrs. Hancock and Hendron, and a drift run to the old workings. No high-grade ore was found (see Dr. Haney's report), althe 21 tons of low grade ore was shipped which analysed 35% MnO_2, 3.6% Fe and 31.8% SiO_2; presumably this was cherty ore of the type occurring on the dump. Quartzite, wad, and yellow chert with nodular manganese minerals are present on the dump of these workings. A fifth of a mile to the northeast are two old pits about 10 feet deep (locality 2, plate 1). Rotten quartzite is exposed in the pits, and some chert with nodular manganese oxides is scattered on the dumps. Two-fifths of a mile further northeast is an old water-filled shaft (locality 1, plate 1); the dump is composed of white and grey dolomitic marble but no manganese ore is visible."

Sheet No. _____, Accompanying Form MF-100, submitted by ESTATE OF C. D. LARUS, JR.

Excerpt from "Mineral Resources of the United States", 1885, page 312.

"Nelson County - In Nelson County several deposits of manganese have been worked quite extensively in past years, though no ore is now mined. These deposits are found in the ore belt of the James River already described, the belt running nearly parallel to the river and about 2 miles from the left or northwest bank. The manganese shows generally in small quantities on the surface, the deposit widening as it goes down. The manganese is found in pockets and usually in clay.

"From what is known as the Cabell mine, two miles from Warminster depot, on the Richmond and Alleghany Railroad, some 5,000 tons of manganese were taken in 1868, and shipped to Newcastle-on-Tyne. The mine has not been worked since 1871. An analysis of the ore showed 82.25 percent of manganese peroxide.

"About half a mile southwest of Cabell mine is a deposit known as the Bugley mine, which was worked about the same time and yielded about 2,000 tons of ore.

"At Midway Mills is a deposit on the land of Mr. G. F. Simpson, which was worked in 1882 and yielded some 1,200 tons of first class ore. The mine was worked by shaft to the depth of 165 feet, when it was drowned out. The ore above the water line is said to have shown some 70 per cent oxide, but below the line it was much richer, 80 to 85 per cent. The entire product was marketed in Liverpool.

"At the Davis mine in Nelson county, an ore giving from a picked specimen the following analysis was at one time mined, though operations are now suspended: . . . . . Some 1,000 tons have been taken from this mine, though none in the last year."

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1577X

Date received 6-4-51

Participation

ESTATE OF CHARLES D. LARUS, JR., DECEASED
CENTRAL NATIONAL BANK OF RICHMOND, CO-EXECUTOR
RICHMOND, VIRGINIA

Name and address of applicant

Date May 16, 1951

FILL IN THIS BLOCK

Date of application May 16, 1951

Estimated cost $40,000

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Nelson County, Virginia

Date of filing MF-100 May 16, 1951

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?

*2. If a partnership, state names and addresses of partners.

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.

*5. Are you the owner or the lessee of the property? Owner

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None.

7. If lessee, attach a copy of the lease and state if it is in good standing.

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. Not applicable.

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? Applicant is prepared to invest $10,000.00, being 25% of the estimated cost of the testing planned.

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. Herewith. (a) and (b) are the same.

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

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled. Could be washed on property and shipped via C. & O. Ry. from Warminster Station (1½ miles) to ore buyers and mills.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted? Manganese, open pits.

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

Estate of C. D. Larus, Jr.
Central National Bank of Richmond, Co-Executor By [signature]
(Name of company) (Signature of authorized official)

May 16, 1951 Vice President and Trust Officer
(Date) (Title)

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

*Same as footnote on page 1.

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

Sheet No. 1, Accompanying Form MF-103, submitted by ESTATE OF C. D. LARUS, JR.

Answer to Questions:

21. It is desired to test the mineralized zone of the Laynesville or Piedmont Tract, hereinbefore described, for commercial deposits of manganese ores. Guides to the tests will be the old workings and outcrops, which extend for a distance of from one to two miles across the property in a northeast-southwest direction. The ores occur in partially decomposed schists and residual clays in depths from grass roots to about 350 feet. Testing, estimated to require eight months time, will consist of clearing the old shafts and tunnels where deemed useful, and core drilling of outcrops and ore bodies encountered in the old workings. Two thousand feet of core drilling can be presently contracted at $5.00 per foot, the contractor furnishing labor. Dr. Haney's report (attached) states: "I am of the opinion that 200 feet of development work would prove the existence of good commercial ore bodies."

22. Please see MF-100, herewith, accompanying papers, for reports on this tract. The only map available to the applicant, a property plat, is hereto attached.

23. Requirements and Costs. Assuming that the shaft and tunnel rehabilitation will require four months and the drilling will be underway for six months and that the labor estimate will not include drilling crews which are furnished by the contractor:

((a)	2,000 feet drilling at $5.00 per foot	$10,000
((a)	Labor (4 miners, 4 muckers, 2 handymen,	
(	1 waterboy, 1 foreman)	10,000
(b)	Supervisors (mining engineer, necessary time on job, $500/8 mos.),(consultant, overall supervision, fee $1,500), (supervisors' travel, $1,000)	6,500
(c)	Cost of necessary repairs (clearing roads, $800; timbering shafts, tunnels, $2,000)	2,800
(d)	Temporary office and tool house, storage, core handling	2,000
(e)	(It is believed that pumps, power and lighting units, trucks, etc. can be rented) Other items	1,000
(f)	Items in (e) mentioned as rentable	1,700
(g)	None	
(h)	Powder, miners' tools, wire, hose, etc., other than fuel	2,500
(i)	Gasoline (overall average 50 gallons daily @ 30¢/gal. delivered)	3,000
	Miscellaneous items	500
	Total above	$40,000

24. Time schedule (maximum, 8 months duration) and Money to be spent.

The answer must be somewhat flexible, depending upon how closely the

drilling follows reopening of the old workings. The following is assumed typical:

Month	Items	Expenditure therein
1st	Clear roads, $800; advance to contractor, $1,000; all of (d) above, $2,000; engineer, $500; travel, $100; purchase supplies, $1,000; gasoline in bulk, $200; advance rental (f) above, $500; 1 week of labor above, $600.	$6,700.00
2nd	Labor, $2,500; engineer, $500; travel, $150; consultant, $500; timber, etc. for shafts, $1,000; rental, $200; (e) above, $1,000; gasoline, etc. $500.	6,350.00
3rd	Labor, $2,500; engineer, $500; travel, $100; drilling 2 weeks, $1,000; gasoline, etc., $500; tunnel, etc. repair, $1,000; materials, supplies, $500; rentals, $200.	6,200.00
4th	Labor, $2,500; engineer, $500; travel, $100; drilling, $1,750; gasoline, etc., $500; rentals, $200; miscellaneous (i) above, $500.	6,050.00
5th	Labor 3 weeks, $1,800; engineer, $500; consultant, $500; travel, $150; drilling, $1,750; gasoline, etc., $500, rentals, $200; supplies, $500.	5,800.00
	Spent in first five months, as above	$31,800.00

For the sixth and remaining months of the test, the work will be confined to drilling and supervision. Supplies will be on hand or paid for and on call, the drilling fund will show a balance (at the end of the fifth month) of $5,500 plus a credit of $1,000, representing the advance to the contractor, so that ample funds remain to complete the work.

Jas. River Orchard Corp.

To) Deed for Land

Chas. D. Larus, Jr.

Richmond, Virginia, July 6, 1914.

At a meeting of the Board of Directors of The James River Orchard Corporation, held at its office this day all the Directors being present, the President stated that he had received an offer from Charles D. Larus, Jr., of Five Dollars and One Half ($5.50) per acre for the Fourteen Hundred and Fifty-Seven and Seventy Two one Hundredths acres of land, more or less, known as Laynesville near Warminister in Nelson County, Virginia, same being the entire remainder of the land now held by the James River Orchard Corporation; and on motion, and in pursuance of authority conferred upon the Board of Directors by the Stockholders at their meeting held this day, it was unanimously resolved to accept the said offer, and the President was authorized to sell the said property and to make, Execute and deliver to the said Charles D. Larus, Jr., a good and sufficient deed and to sign the name of this Corporation to said conveyance, and that the Secretary be authorized and directed to affix the seal of the said Corporation, and attest the same, and that the officers do acknowledge the same for recordation.

(CORPORATE SEAL) William Todd Secretary.

William Todd, Secretary.

This Deed, made this 6th day of July in the year 1941, between The James River Orchard Corporation, a Corporation under the laws of Virginia, (in pursuance if a resolution of its Board of Directors passed on the 6th day of July, 1914, an attested copy of which is attached to and made a part of this deed), party of the first part; and Charles D. Larus, Jr., of the City of Richmond, Virginia, party of the second part- Witnesseth.

That for and in consideration of the sum of Ten Dollars ($10.00) and other valuable considerations, receipt of which is

hereby acknowledged, the said party of the first part doth grant and convey with General Warranty, unto the said party of the second part the following described property in Nelson County, Virginia, bounded and described as follows, and delineated on a plat hereto attached which is made a part of this deed, to-wit:

Beginning for the same on the western most side of the James River at the mouth of Slaty Branch; and running thence, up said branch, in a westerly direction to a point marked "A" on said plat on the western most side of the right of way of the Chesapeake & Ohio Railway Company; thence, on the right of way of the Chesapeake & Ohio Railway Company, North, Three and one-half Degrees East, Twelve and Ninety-Hundredths' Poles; thence North Twelve and On-Fourth Degrees west, Thirteen Poles; Thence north Eighteen and three-quarters degrees East, Thirteen and Four-tenths Poles; Thence north Eighteen and One-Fourth Degrees East, Twenty-Seven and Three-Tenth's Poles to a point marked "B" on said Plat; thence North Eighty-Seven, and One-Half Degrees West, Fifty-Eight and Nine-Tenth's Poles to a Point marked "C" on said plat; thence South Two and One-Half Degrees west, Seventeen and Eight-Tenth's poles to Slaty Branch at a point marked "D" on said plat; thence, up and on Slaty Branch, One Hundred and Eighty-Two Poles to pointers; thence north, Fifty-Two Degrees West, One Hundred and Fourt poles to Pointers; thence north, Fourteen Degrees West, Forty-two poles to Pointers at the South East corner of the Cabell Mine Tract, as shown on said plat; thence, on said Cabell Mine Tract north, nineteen degrees west, one Hundred and Thirty-Eight poles to pointers, at the north-east corner of said Cabell mine Tract; thence north, Fifty-four Degrees East, Ninety poles; thence North Seventy Degrees East, Eighty-one poles to pointers; thence north Sixteen Degrees West, one hundred and Eighty-one poles to pointers

thence Norty Sixty-One Degrees East Forty-six poles; thence north Seventy-Eight Degrees East, Forty-Eight poles; thence North Fifty-nine Degrees East Seventy-Six poles to pointers; thence North Four and one-half Degrees East Sixty-four poles; thence north Twenty-Seven Degrees East Forty-Two poles to pointers; thence north Seventy-five Degrees East, one Hundred and Ten poles to pointers; thence South Two Degrees West, one Hundred and Thirty-Eight poles to pointers; thence South Eighty-Six Degrees East, fifty-six poles to pointers; thence South Forty-Eight Degrees west One Hundred and fifteen poles to pointers; thence South Twenty-Eight and one-half Degrees East, Forty-four poles to pointers; thence North Fifty-four Degrees East, Sixty-four poles; thence North Seventy-Nine Degrees East, thirty-three poles; thence north Forty-four Degrees East, Sixty-four poles to pointers; thence South Sixty-two Degrees East, Fifty-Seven poles to pointers; thence South Seven degrees west, 210 poles to pointers; thence South 19° East, 46 poles; thence South 2° West, 20 poles; thence South 43° East 54 poles to pointers; thence South Twenty-Three degrees west 12 poles; thence South 39° west, 16 poles; thence South 55° West, 18 poles; thence South 50° West, 12 poles; thence South 83° West, 31½ poles, thence South 21° West, 44 poles; thence South 20° East 86 poles; thence south 3° East 54 poles; thence North 79° West 9 poles; thence South Eighteen Degrees west, Eight poles to the James River and thence up and on the James River, 305 poles to Slaty Branch to the place eg beginning- Containing eighteen hundred and Twenty-two and Thirty Hundredth's Acres of land, more or less, excepting therefrom the right of way and property of the Chesapeake & Ohio Railway Company. Being the same property conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by his deed dated September 30th, 1913, recorded in the Clerk's Office of Nelson County Court in D. B. 38, page 477. Less, the following tracts of land severally conveyed, to wit:

(1) One Hundred and six and one-half acres conveyed to H. D. Omohundro and J. L. Horsley by deed recorded in D. B. 38, page 573. (2) Eighty Acres conveyed to J. W. Proffitt et als by deed recorded in D. B. 39, page 2. (3) Seven and one-quarter acres conveyed to J. R. Cunningham by deed Recorded in D. B. 39, page 5. (4) Twenty-nine acres conveyed to J. C. Cottell by deed recorded in D. B. 39, page 24. (5) One Hundred and seventeen and one-half acres conveyed to Omohundro and Horsley by deed recorded in D. B. 39, page 179. (6) Twenty-four and Thirty-three one Hundredth's Acres conveyed to C. E. Dolan by deed recorded in D. B. 39, page 203. The above conveyances totaling Three Hundred and Sixty-Four and Fifty-Eight one Hundredth's Acres. Therefore this conveyance from the James River Orchard Corporation to Charles D. Larus, Jr., contains Fourteen Hundred and Fifty-Seven and Seventy-Two One Hundredth's Acres, more or less. The property hereby conveyed may be further described as all of the land which was conveyed to the James River Orchard Corporation by James A. Gary, Surviving Trustee, by deed above mentioned, which lies north and west of the main County Road from Howardsville to Warminister less the Eighty Acres conveyed to J. W. Proffitt et als and the Twenty-nine acres conveyed to Cattett as above set forth. This property is further sold subject to a timber contract between the James River Orchard Corporation and H. M. Harris dated December the 9th, 1913, and recorded in the Clerk's Office of the Nelson County Court in D. B. 39, page 563.

The party of the first part covenants that it has the right to convey the said land, that it has done no act to encumber the same except as above setforth; that the grantee shall have quiet possession free from all further encumbrances; and that the said party of the first part will execute such further assurance of the said land as may be requisite.

In Witness Whereof, The said James River Orchard Corporation has caused this deed to be signed, sealed and delivered in its name and behalf by R. H. Harwood, its President, and its Corporate seal to be hereto affixed,

attested by William Todd, its Secretary, the day and year first in this deed written.

(CORPORATE SEAL) The James River Orchard Corporation

By R. H. Harwood, President.

Attest:

William Todd, Secretary.

State of Virginia,

City of Richmond, to-wit:

I, G. Carrington Moseley, a Notary Public for the City aforesaid in said State, do certify that R. H. Harwood, President, and William Todd, Secretary of the James River Orchard Corporation whose names are signed to the foregoing writing, bearing date on the 6th day of July, 1914, have severally acknowledged the same before me in my said City. And the said R. H. Harwood, President, being duly sworn, says that this deed is made in pursuance of a unanimous resolution of the Board of Directors of said Corporation, as authorized by the Stockholders. And that the seal of the Corporation affixed to said writing is the corporate seal of the said party of the first part.

Given under my hand this 24th day of July, 1914.

G. Carrington Moseley.
Notary Public.

My commission expires)
October the 9th 1917 (

Virginia:

In Nelson County Circuit Court Clerk's Office July 27, 1914.

This deed and plat was presented in said office and, upon the certificate of acknowledgement thereto annexed, admitted to record.

Teste: E. L. Kidd, Clerk

A copy,

Teste: /S/ C. W. Embrey Clerk

Deed Book 39, pages 338-341

CHARLES D. LARUS, Jr., and WIFE

To) DEED B. & S.

DECKER CALL.

THIS DEED, made this 23rd. day of February, 1921, between Charles D. Larus, Jr., and Anne M. Larus, his wife, of the City of Richmond, Virginia, parties of the first part, and Decker Call, of Nelson County, Virginia, party of the second part;

WITNESSETH: That for and in consideration of the sum of One Thousand ninety-two and fifty one-hundredths ($1092.50) dollars, paid and secured to be paid, the said Charles D. Larus, Jr. and wife do grant unto the said Decker Call with General Warranty, all of a certain tract of land located in Nelson County, Virginia, Greenfield District, containing one hundred nine and one-fourth (109¼) acres, more or less, the same being a portion of the Lansville tract, which lays on the north side of the Howardsville and Warminister public road, and adjoins the lands of Horsley and Omohundro, C. E. Dolan, a part of the Lewis Estate, and the lands of Charles D. Larus, Jr. and more fully described in metes and bounds by plat of F. W. Swan, made Feby. 4th. 1921, which is hereto attached and made a part of this deed; and being a part of the land conveyed to the said Charles D. Larus, Jr., by deed from the James River Orchard Corporate date July 6th, 1914, and recorded in the Clerk's Office of the Nelson County Circuit Court in D. B. 39, page 338. The said parties of the first part hereby reserve the right to use for ingress and egress, the roads through the said land.

The said parties of the first part covenant that they have the right to convey the said land to the grantee, that they have done no act to encumber the said land; that the grantee shall have quiet possession of the said land, free from all encumbrances; and that the said parties of the first part will execute such further

assurances of the said land as may be requisite.

Witness the following signatures and seals:

Charles D. Larus, Jr., (seal)

Anne M. Larus (seal)

State of Virginia,
City of Richmond, to-wit:

I, Edw. L. Williams, a Notary Public, for the City aforesaid in the State of Virginia, do certify that Charles D. Larus, Jr. and Anne M. Larus, his wife, whose names are signed to the foregoing writing, bearing date on the 23rd. day of February, 1921, have acknowledged the same before me in my City aforesaid.
Given under my hand this 28th. day of February, 1921.
My commission expires March 13th, 1922.

Edw. L. Williams, Notary Public.

(Notary Seal)

VIRGINIA:

In the Clerk's Office of the Circuit Court of Nelson County, March 11th, 1921
This deed, with $2.00 Rev. Stamp affixed and cancelled, was this day received in said office and, with the certificate of acknowledgement, admitted to record at 11:30 o'clock A. M.

Teste:
C. W. Embrey, Clerk

A Copy, Teste: /S/ C. W. Embrey Clerk

Deed Book 46, page 111-112

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

COPY

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

March 9, 1951

Mr. William B. Jacobs, Vice President
The Central National Bank
Broad at Third Street
Richmond 15, Virginia

Dear Mr. Jacobs:

I have your letter of February 3, 1951, with the enclosed Statement of Facts, map, and Preliminary Report by Mr. Marshall Haney concerning manganese properties in Nelson County, Virginia.

The Bureau of Mines has no Field Team active in Virginia at this time. However, it is possible that Virginia manganese deposits will receive further attention in the future. I am forwarding your information to our regional office in order that your property may be considered when plans are made for field investigations.

Incidentally, the Laynesville Tract is apparently indentical with the old Piedmont Mine referred to in U. S. Geological Survey Bulletin No. 427, page 41.

Very truly yours,

S/ Norwood B. Melcher
Ferrous Metals & Alloys Branch

JMForbes:lds

Copy to: Mr. H. P. Greenwald, Region VIII, Pittsburgh, Pa.
Mr. McHenry Mosier, Region VIII, College Park, Md.
Mr. Ridgway
Mr. Melcher
Files

COPY

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

March 27, 1951

Mr. William B. Jacobs, Vice President
The Central National Bank
Broad at Third Street
Richmond 15, Virginia

Dear Mr. Jacobs:

I have your letter of March 14, 1951, regarding manganese properties in Nelson County, Virginia.

Your letter of February 3, 1951, was forwarded to the Field Team with address as follows: Mr. McHenry Mosier, Chief, Mining Branch, Minerals-Technology Division, Region VIII, U. S. Bureau of Mines, College Park, Maryland. Also, a copy of my March 9th letter to you was sent to Mr. H. P. Greenwald, Regional Director, Region VIII, Pittsburgh, Pennsylvania, for his information.

Very truly yours,

S/ Norwood B. Melcher
Ferrous Metals & Alloys Branch

NBMelcher:lds

Copy to: Mr. Ridgway
Mr. Melcher
Files

March 7, 1951

Mr. William R. Jacobs
Vice President and Trust Officer
The Central National Bank
Richmond 15, Virginia

Dear Sir:

Your letter of December 15, 1950, addressed to Mr. Maull, Chief of Strategic and Critical Materials Purchase Branch of General Service Administration, has been referred to the Defense Minerals Administration for attention.

I am enclosing herewith a copy of two press releases which outline the type of assistance available under the terms of the Defense Production Act. Your attention is directed to the final paragraph of the release dated December 5, which outlines the factual information we must have before any application for assistance can be considered.

We can assure you that any communication which you may forward giving us this information will be given every consideration.

Very truly yours,

Geo. B. Holderer, Acting Chief
Manganese-Tungsten-Chrome Branch

cc: Mr. Lyon
Mr. Malcolm
Adm.Reading File
Mr. Strobel
Exec.Officer, Field Team, Region VIII
F i l e s

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 1-17-51

REFERRED TO:
1. Mrs Bradley
2.
3.
4.

FOR:
---Action
---Approval
---Comment
---Recommendation
✓ Reply for signature of
---Your information

REMARKS: Copy of reply to Mr Stoddell and Field Team

Check (X) before the items needing attention.

Stoddell
Initials of sender.

Interior – Bureau of Mines, Pittsburgh, Pa.

LANDON F. STROBEL

GENERAL SERVICES ADMINISTRATION

Emergency Procurement Service
Washington 25, D. C.

JAN 15 1951

Dr. James A. Boyd
Administrator
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Dr. Boyd:

Enclosed herewith is letter dated December 15, 1950, from the Central National Bank, Richmond, Virginia, which requests the exploration and development of manganese property owned by one of its trust accounts in Nelson County, Virginia.

This letter is forwarded as a matter under the jurisdiction of your Administration under Public Law 774, "Defense Production Act of 1950".

Very truly yours,

A. J. Walsh
Acting Commissioner

Enclosure

RESTRICTED

"This material contains information affecting the national defense of the United States within the meaning of the Espionage Laws Title 18 U. S. C., Sections 793 and 794. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law."

JAN 17 10 54 AM '51
BUREAU OF MINES
WASHINGTON, D. C.

GENERAL SERVICES ADMINISTRATION

Emergency Procurement Service
Washington 25, D. C.

JAN 15 1951

Dr. James A. Boyd
Administrator
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Dr. Boyd:

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Very truly yours,

A. J. Walsh
Acting Commissioner

Enclosure

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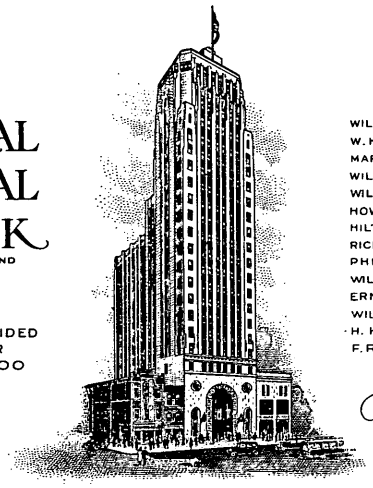
THE CENTRAL NATIONAL BANK
OF RICHMOND

CAPITAL
SURPLUS & UNDIVIDED
PROFITS OVER
$4,300,000.00



WILLIAM H. SCHWARZSCHILD, CHAIRMAN OF THE BOARD
W. HARRY SCHWARZSCHILD, JR., PRESIDENT
MARVIN L. PRESSON, VICE-PRESIDENT & CASHIER
WILLIAM H. METZGER, VICE-PRESIDENT
WILLIAM B. JACOBS, VICE-PRESIDENT & TRUST OFFICER
HOWARD E. GILL, VICE-PRESIDENT
HILTON J. HERRMANN, ASSISTANT VICE-PRESIDENT
RICHARD I. SCHWARZSCHILD, ASSISTANT CASHIER
PHILIP A. WILHITE, ASSISTANT CASHIER
WILLIAM L. WAY, ASSISTANT CASHIER
ERNEST H. COPPLE, ASSISTANT TRUST OFFICER
WILLIAM L. NICHOLS, ASSISTANT TRUST OFFICER
H. HILL SANDIDGE, JR., ASSISTANT CASHIER
F. RICHIE WARNER, ASSISTANT CASHIER

109941

BROAD AT THIRD ST.
RICHMOND 15, VA.

December 15, 1950

Mr. H. C. Maull, Jr., Chief
Strategic and Critical Materials
Purchase Branch
General Service Administration
Federal Supply Service
Washington 25, D. C.

Dear Mr. Maull:

In your letter of August 21 to our Mr. W. L. Nichols, Assistant Trust Officer, you kindly furnished us information regarding the specifications governing the purchase of manganese ore for the Government's account.

We have just read an article in the Wall Street Journal of December 13 indicating an acute situation in the supply of manganese ore and that low grade ores would undoubtedly be in demand.

We believe that the tract of land containing slightly more than 1300 acres owned by one of our trust accounts, and located in Nelson County, Virginia, offers a supply of manganese ore which would definitely warrant investigation by your organization. These deposits have not been worked for many years, and indications are that the manganese content of the ore is just slightly under 40%. However, this analysis was made from ore picked up on the surface, and it may be that the deposits upon investigation will be found to contain a higher percentage of manganese. The estate is not in a position to spend any sizable amount of money in exploration work but we should like to make available this supply of strategic material, and there must be some organization experienced in this field which would be willing to explore these deposits.

In view of the critical world situation we believe that the demand factor for manganese may have changed considerably during recent months, and we would appreciate your comments.

Very truly yours,

WBJ/LR

Vice President and Trust Officer.

Copy to Mr. James A. Saunders

~~There is an opt~~

Encouragement of production of strategic minerals, of which chromite is one of the most important, is the function of the Defense Minerals Exploration Administration. ~~[illegible]~~

~~If you [illegible] the~~

There is an opt no provision for ~~exploration~~ ~~there~~ Federal assistance for prospecting, and we are ~~[illegible]~~ [illegible] adding, all, any answer to those questions which first write produce; however, we suggest you write us giving a more precise description of the properties ~~as [illegible]~~ so that we may identify it for investigation of any geologic formation properties ~~we may have there~~

DEC 18 2 30 PM '56
STRATEGIC AND CRITICAL MATERIALS BRANCH
OFFICE OF FEDERAL SUPPLY

as may exist in the files of the US Bureau of the US Geological Survey

DM - 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE MAR 19 1951

REFERRED TO:
1. ~~Mr. Holderer~~
2. ~~Mr. Nagelson~~
3.
4. Mr Belcher

FOR:
- Action
- Approval
- Comment
- Recommendation
- X Reply ~~for signature of~~
- Your information

Art Nagelson what this is all about -- retrieve file if action necessary
BRB 4-1-51
Bradley

REMARKS:
Received by Bradley MAR 20 1951
File - Jacobs

Check (X) before the items needing attention.

LANDON F. STROBEL

Initials of sender.

Interior - Bureau of Mines, Pittsburgh, Pa.

MAR 19 1951

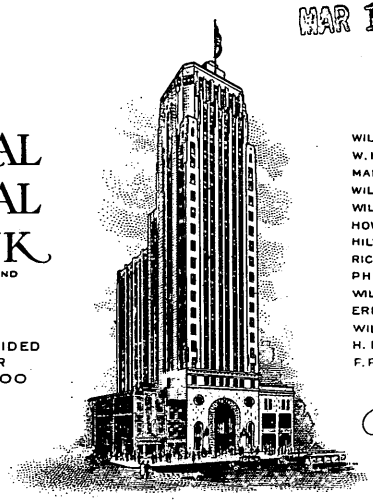
Mr. Holderer

BUREAU OF MINES WASHINGTON, D.C.

18 AM '51

THE CENTRAL NATIONAL BANK
OF RICHMOND

CAPITAL
SURPLUS & UNDIVIDED
PROFITS OVER
$4,300,000.00



WILLIAM H. SCHWARZSCHILD, CHAIRMAN OF THE BOARD
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WILLIAM L. NICHOLS, ASSISTANT TRUST OFFICER
H. HILL SANDIDGE, JR., ASSISTANT CASHIER
F. RICHIE WARNER, ASSISTANT CASHIER

BROAD AT THIRD ST.
RICHMOND 15, VA.

March 14, 1951

Mr. George B. Holderer, Acting Chief
Manganese-Tungsten-Chrome Branch
Defense Minerals Administration
U. S. Department of the Interior
Washington 25, D. C.

Dear Mr. Holderer:

We are writing you in reply to your letter of March 7, advising us that our letter of December 15, 1950, addressed to Mr. H. C. Maull, Jr., Chief of Strategic and Critical Materials Purchase Branch of General Service Administration had been referred to your office for attention.

Since writing Mr. Maull on December 15 we wrote to Mr. N. B. Melcher of the Manganese Division, Defense Minerals Administration on February 3 enclosing a great deal of information on the property which we own in Nelson County, Virginia. We feel that we have, therefore, furnished your organization with a large portion of the information required under the final paragraph of the release dated December 5 which you sent us. A copy of our letter of February 3 is enclosed herewith.

Very truly yours,

Vice President and Trust Officer.

WBJ/LR
enc-

THE CENTRAL NATIONAL BANK
RICHMOND, VIRGINIA

COPY

J-Mn-1517-X

February 3, 1951

Mr. N. B. Melcher
Manganese Division
Defense Minerals Administration
United States Department of the Interior
Washington 25, D. C.

Dear Mr. Melcher:

Your letter of January 25 to Mr. James A. Saunders, President, Atlantic Varnish and Paint Company, Inc., Richmond, Virginia, has been referred to us in view of the fact that his inquiry of January 9 was in our behalf.

We represent, as Co-executor and Co-trustee of the Charles D. Larus, Jr. Estate, a tract of manganese ore land containing slightly in excess of 1300 acres located in Nelson County, Virginia, and we believe that these deposits are sufficient in size and quality to warrant a thorough investigation by the Defense Minerals Administration.

The estate has not had funds to invest in exploration work, and we frankly do not know in a detailed way exactly what we have to offer except that surveys made in the past have clearly indicated that these deposits may be an important source of manganese.

Enclosed herewith are the following:

1 - Statement of facts as to the location and nature of the deposits, on the form which you have submitted

2 - Survey plat of the property

3 - Preliminary report prepared by Marshall Haney, Certified Mining Engineer

4 - Map showing location of the property and directions for reaching it.

We would be very glad to arrange a personal interview, and Mr. Saunders, who is the son-in-law of our decedent, would like to

THE CENTRAL NATIONAL BANK
RICHMOND, VIRGINIA

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February 3, 1951

Mr. N. B. Melcher - Cont'd #2

submit this matter to you in more detail in Washington at your convenience.

Your comments will be appreciated.

Very truly yours,

WBJ/LR
encs-

Vice President and Trust Officer.

Copy to Mr. James A. Saunders

Int. 3337

DEPARTMENT OF THE INTERIOR

INFORMATION SERVICE

DEFENSE MINERALS ADMINISTRATION

For Release at 8:30 P.M., DECEMBER 5, 1950

COOPERATION PLEDGED TO MINERALS INDUSTRY

The domestic mining industry was urged today to increase ~~its efforts to provide~~ the basic raw materials essential to the defense program of the Nation.

In an address before the annual members' meeting of the American Mining Congress in New York City, James Boyd, Administrator of the Defense Minerals Administration called attention to the accelerated demands for strategic and critical metals and minerals.

The purpose of the DMA is to assure an adequate supply of metallic and nonmetallic minerals for the national defense effort. The Defense Minerals Administration is one of five new agencies established by Secretary of the Interior Oscar L. Chapman to carry out specific provisions of the Defense Production Act of 1950. The other four agencies are the Petroleum Administration for Defense, the Defense Power Administration, the Defense Solid Fuels Administration, and the Defense Fisheries Administration.

Dr. Boyd, on behalf of Secretary Chapman, pledged the cooperation of the Interior Department and the Defense Minerals Administration in keeping mines, smelters and mills at maximum efficient operation and in expanding production of those mineral commodities in short supply.

"The mining industry," said Dr. Boyd, "has a Herculean task before it in providing our domestic industry with the supplies needed for the production of military material and essential civilian goods.

"You have done the job well in two world wars," he added, "and I have faith that you will succeed in this critical period of mobilization."

Describing the Defense Minerals Administration as the prime point of Government contact with the mineral industries and the manufacturers of mining machinery and equipment, Dr. Boyd outlined the methods that have been thus far worked out to provide Government assistance to those mineral producers unable to expand production without Government assistance. Under the Defense Production Act, he said, three principle methods are available: (1) Government guarantee of private loans; (2) Direct Government loans; and (3) Procurement contracts. A fourth method, accelerated amortization for tax purposes, he added, is available under the Internal Revenue Act of September 23, 1950, applications for which are being handled through the National Security Resources Board.

The Defense Minerals Administration, stated Dr. Boyd, cannot make loans or conclude purchase contracts itself. The function of the Defense MineralsAdministration in regard to loans, he explained, is to certify to the Reconstruction

rporation as to their necessity for national defense. As for procurement these will be certified to the General Services Administration after DMA out the preliminary negotiations. (Purchases of ores or processed minerals under contracts of the General Services Administration may be private industries or retained for the Government stockpile.)

The Defense Minerals Administration will also be called upon to give an advisory opinion where accelerated amortization is requested.

"Secretary Chapman, who has been given the responsibility by President Truman of expanding production of minerals, fuels and electric power," Dr. Boyd told the Mining Congress, "has asked me to stress to you the extreme importance of our metals and minerals. The scarcity of the products of our mines is perhaps the most limiting factor in our economy today."

"Our problems", added Dr. Boyd, "are threefold: First, we must get the maximum production possible--every available pound--from existing facilities immediately. Second, we must create new sources--to develop known but unworked deposits--to meet the continuing expanded demands of a mobilized economy. And third, we must make concentrated efforts to find additional deposits of ore."

Dr. Boyd pointed out that the Defense Minerals Administration has tentatively set up three major divisions to carry out its responsibilities to the Nation under the Defense Production Act--a requirements division, a supply division, and a production expansion division.

Since the imposition of considerable military requirements on top of an already expanding civilian production must be based on the available supply of basic raw materials, the major functions of the Requirements Division are twofold: The first is to assure the necessary production materials for the maintenance, repair and operation of the metal mines and nonferrous smelters, and the nonmetallic mines so that the current rate of flow of metals and minerals from the mines is unhampered, Administrator Boyd said. This also means that an adequate supply of repair parts and new equipment must be assured to continue the mechanization of these mining properties. The second major function is to determine the requirements for the expansion programs of strategic minerals which are developed by the Production Expansion Division.

The Supply Division, Dr. Boyd continued, is to be the programming and planning group of the Defense Minerals Administration. It will analyze and maintain forecasts of total supplies of all critical metals and minerals, and will maintain liaison with the NPA of the Department of Commerce with regard to the supply-requirements situation, and advise on adjusting requirements to supply. It also will develop goals for the expansion of productive capacity as well as programs for achieving them. In addition, this division will recommend regulations on conservation and limitation in order to divert as necessary the flow of crude and intermediate mineral products.

The Production Expansion Division will process applications for Government assistance and will evaluate individual proposals for increasing production of critically needed mineral raw materials. The Division will conduct preliminary negotiations leading to procurement contracts and loans, will recommend to the Deputy Administrator the certification of contracts and loans, and will maintain liaison with the General Services Administration, Reconstruction Finance Corporation, National Security Resources Board, and other Federal agencies concerned in the matters of contracts and loans.

It is obviously the intent of the Act, Dr. Boyd told the American Mining Congress, that expansion of production shall be facilitated as much as possible through ordinary business channels. Government guarantee of loans or direct Government loans can be resorted to if regular business loans are not obtainable. However, the Government will negotiate purchasing contracts or make loans only if these methods appear to be necessary to place into industrial channels additional quantities of critical metals and minerals.

In selecting projects designed to expand mineral production, the Defense Minerals Administration, according to Administrator Boyd, will give primary consideration at present to those designed to produce one or more of the following commodities (listed alphabetically): Antimony, asbestos (spinning grade), beryllium, chromite, cobalt, columbium-tantalum, copper, corundum, fluorspar, graphite (crucible flake), manganese, mica (strategic), molybdenum, nickel, platinum group metals, sulfur, talc (steatite), tungsten, and zinc. This list, he added, will be expanded, curtailed or modified in accordance with the changing national defense requirements. Projects to be approved by the Defense Mineral Administration must, in its judgment, show definite promise of yielding material of acceptable grade, physical character, and specifications in amounts that will significantly improve the mineral supply position for national defense. Also, said Dr. Boyd, commitments for assistance in developing and mining mineral deposits will be made only when the necessary processing plants, water supply, and access roads exist, or when simultaneous commitments are made to assure that they will be provided if necessary. The technical and managerial competence of the operator will also be considered.

In amplifying his remarks on procurement contracts, Dr. Boyd stated that over-market prices will be certified only when the Defense Minerals Administration determines, as required by the Defense Production Act, that the production goal for a specific material cannot be reached "..... at lower prices or on terms more favorable to the Government."

The applicant for certification of a purchase contract, he added, will be required to demonstrate to the satisfaction of the Defense Minerals Administration that ore reserves of suitable grade and character are available and adequate to fulfill the requested contract, and the applicant will be required to satisfy the Defense Minerals Administration that he can meet a firm delivery schedule.

In regard to loans, Administrator Boyd said that applicants for certification of loans will be required to demonstrate to the satisfaction of the Defense Minerals Administration, as required by the Defense Production Act, that financial assistance has been sought through other channels and ".... is not otherwise available on reasonable terms."

The particular type of assistance that will be recommended or granted, the mining men were told, will be that which best suits the stage of development of the proposed project and the needs of the operator. Most project proposals will require a field examination of the mineral deposit concerned before recommendations are made.

The Defense Minerals Administration, said Dr. Boyd will rely heavily on the Geological Survey and the Bureau of Mines in carrying out its duties. In Washington, the activities of the three agencies will be coordinated by an operating committee composed of the Deputy Administrator of the Defense Minerals Administration, Acting Director of the Bureau of Mines and Director of the Geological Survey. Appropriate commodity working groups on which the three agencies will be represented, are being set up. The Defense Minerals Administration member of each group will be its executive officer.

Administrator Boyd stated that applications for Government assistance from the mineral industries should be sent directly to him at the Defense Minerals Administration offices in Washington.

The Defense Minerals Administration will maintain no field staff of its own but will rely on Bureau of Mines-Geological Survey teams set up in each of the eight Bureau of Mines regions who will help applicants and will act for the Defense Minerals Administration in reviewing the applications in the light of existing data and determining what additional investigations are necessary to permit a decision. The teams will arrange for field or laboratory studies as needed, see that they are carried out, appraise the results and report to Washington. Other responsibilities of the field team will be to help call to the operating committee's attention projects that the team feels worthy of consideration.

Field headquarters will be set up with the following personnel:

Region I, Juneau, Alaska, S. H. Lorain, BM, and W. H. Twenhofel (acting), GS; Region II, Spokane, Wash., M. E. Volin, BM, and A. E. Weissenborn (GS); Region III, San Francisco, Calif., H. C. Miller (BM) and Ward Smith (GS); Region IV, Denver, Colo., J. H. East, Jr., BM, and A. H. Koschman, GS; Region V, Minneapolis, Minn., A. B. Needham, BM, and C. E. Dutton, GS; Region VI, Joplin, Mo., L. T. McElvenny, BM, and Gallagher, GS; Region VII, Knoxville, Tenn., V. J. Lynch, BM, and Robert Laurence, GS; Region VIII, College Park, Md., W. G. Agnew, BM, and Walter White (acting) GS; and Region IX (the Foreign Minerals region), Washington, D. C., E. W. Pehrson, BM, and W. D. Johnston, GS. The Geological Survey member is executive officer of the field teams headquartered at Spokane, Joplin, Knoxville, and Washington. The Bureau of Mines member is executive officer of the others.

Dr. Boyd pointed out that regardless of the type of assistance sought, certain basic information concerning the proposed project must accompany each application sent to Washington. In addition to the name and address of applicant, the name of and exact location of the property; metal or mineral, and information as to ownership, leases, and detailed directions for reaching the property from the nearest town, each application should present the following data: (1) General description of mineral showings; (2) known dimensions of the deposit; (3) history of deposit (development work, ore shipments, etc.); (4) Description of mine workings; (5) sampling and assays (including maps or sketches, if available); (6) engineer's or geologist's report, if available; (7) description of surface and underground installations and equipment (hoist, compressors, drilling machines, crushers, mill, milling equipment, offices, housing, etc.); (8) description of proposed project, including type of assistance desired; and (9) requirements for proposed projects in terms of money, manpower, construction, equipment, supplies, roads, water supply, and time to carry out project.

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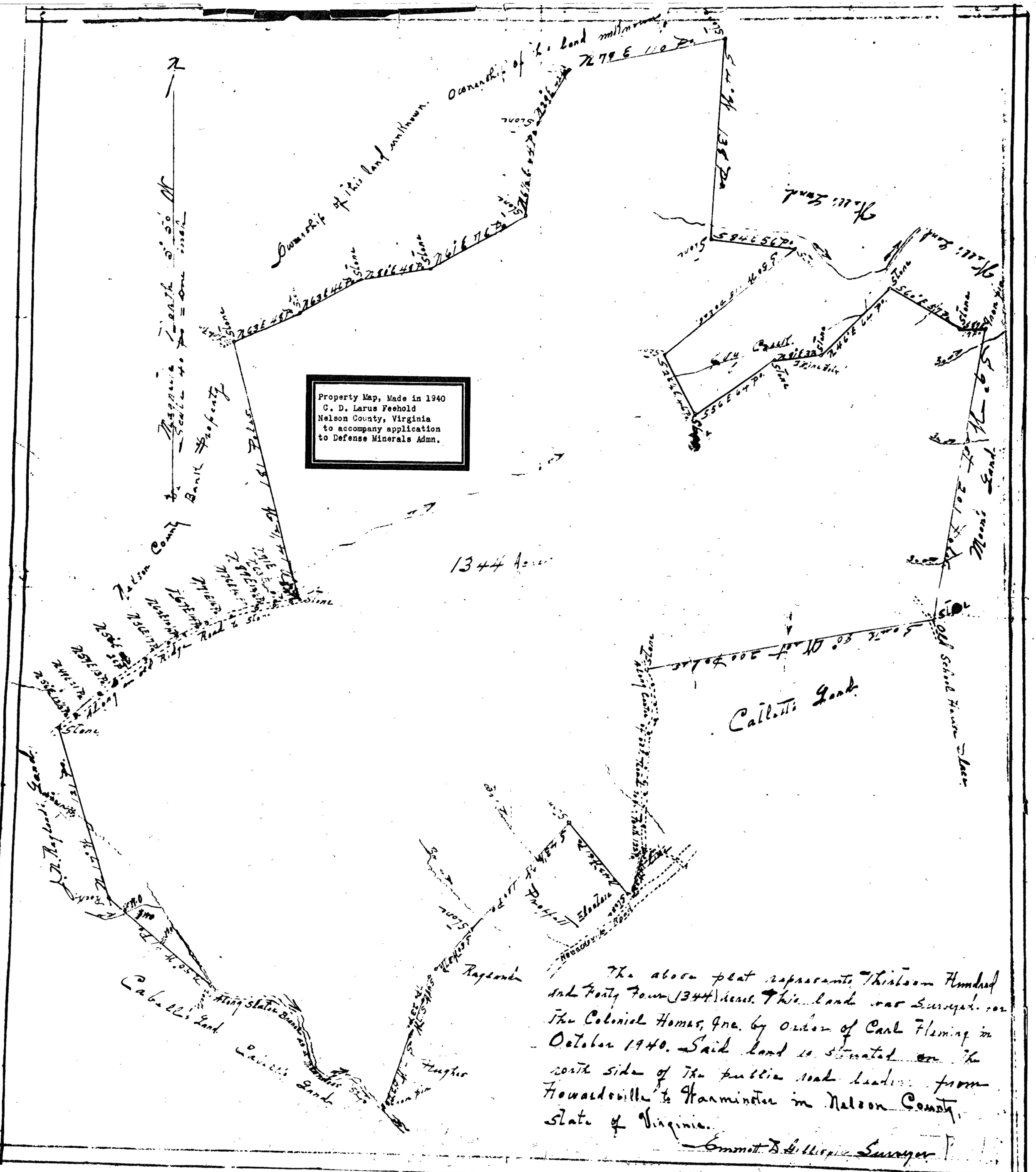
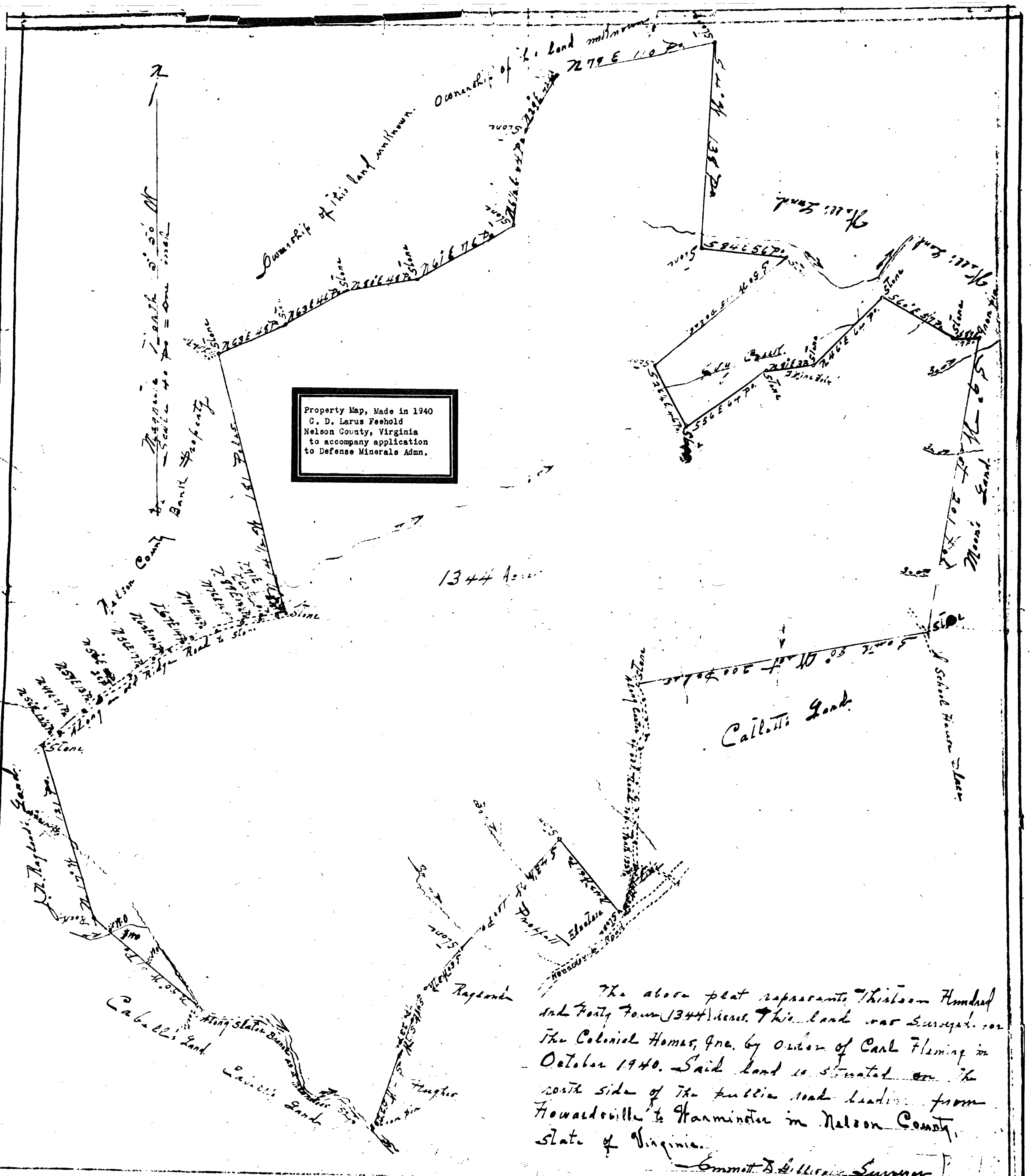
Interior--Duplicating Section, Washington, D. C.



The above plat represents Thirteen Hundred and Forty Four (1344) Acres. This land was Surveyed for The Colonial Homes, Inc. by Order of Carl Fleming in October 1940. Said land is situated on the north side of the public road leading from Howardsville to Harmington in Nelson County, State of Virginia.

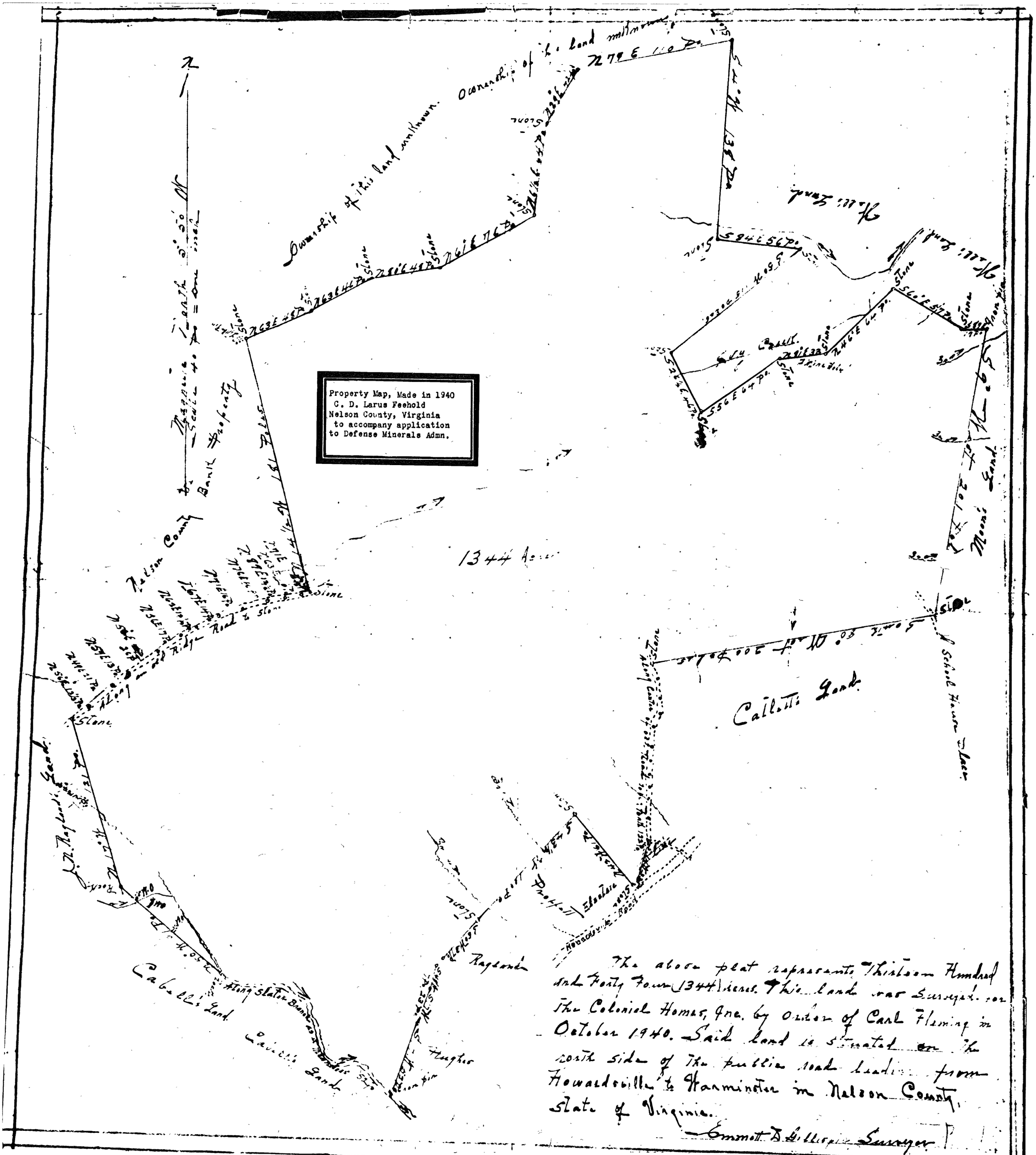
Emmett D. Gillespie Surveyor



Property Map, Made in 1940
C. D. Larus Feehold
Nelson County, Virginia
to accompany application
to Defense Minerals Admn.

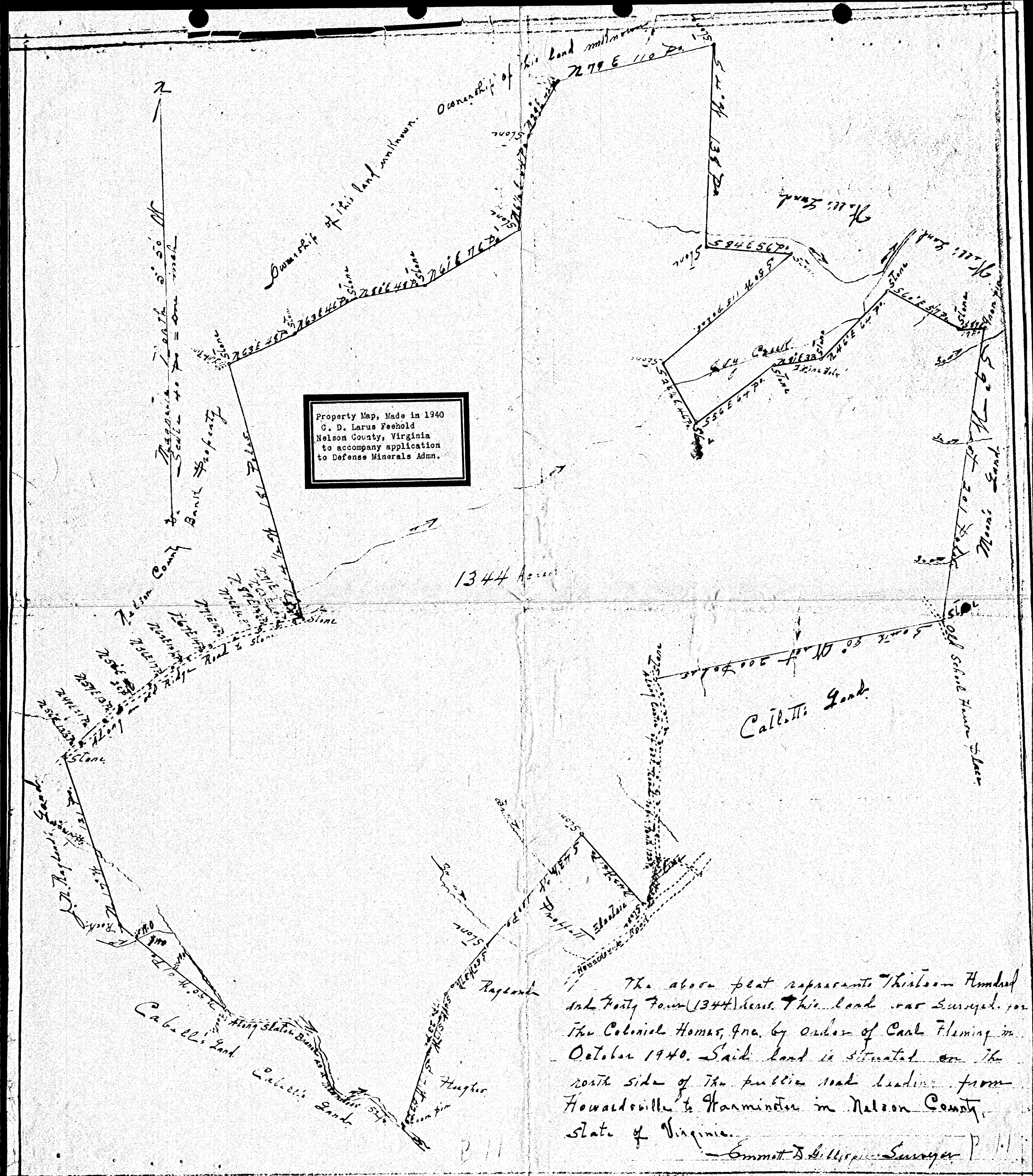
The above plat represents Thirteen Hundred and Forty Four (1344) Acres. This land was surveyed for The Colonial Homes, Inc. by Order of Carl Fleming in October 1940. Said land is situated on the north side of the public road leading from Howardsville to Warminster in Nelson County, State of Virginia.

Emmett D. Gillespie Surveyor



The above plat represents Thirteen Hundred and Forty Four (1344) Acres. This land was Surveyed for The Colonial Homes, Inc. by Order of Carl Fleming in October 1940. Said land is situated on the north side of the public road leading from Howardsville to Harrington in Nelson County, State of Virginia.

Emmett D. Gillespie Surveyor



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