DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 1493

DO NOT DETACH THIS SLIP

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

This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip

To: Code 700- Rm. 4640 Date 1/28/52

To: _____ Date _____

To: _____ ~~Date~~ _____

To: See memo 3/5 ~~Date~~ DMA

To: docket 65 ~~Date~~ advising

To: docket closed - ~~Date~~

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

DO NOT DETACH

CONTROLLED DOCUMENT

700
FILE COPY
SURNAME:

Ellis
Matt

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

JAN 31 1952

Mr. Edwin C. Johnson, Jr.
118 Walnut Street
Spartanburg, South Carolina

Re: Docket No. [illegible]-1493 (Monazite)
Piedmont Mining Company
P. O. Box 323
Spartanburg, South Carolina

Dear Mr. Johnson:

A review of the above docket reveals that you are associated with Mr. G. W. Ichee, President of the Piedmont Mining Company, and presented his application, dated May 30, 1951, for an exploration contract in the estimated amount of $20,000. A request for additional information needed to process this application was directed to Mr. Ichee on July 16, 1951, but no response was received. A second letter mailed November 30, 1951, was returned by the Post Office because of insufficient address. Copies of these communications are enclosed for your information since they apparently never got come to your attention.

Kindly advise us whether there is any further interest in this project. If not, we shall close this docket within thirty (30) days.

Sincerely yours,

1/31/52

Ernest W. Ellis, Acting Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration

Enclosures-2
EWEllis/gla/jem
1/29/52
cc to: Adm. Reading File
Docket
Messrs. Carlson, E.J. Rm. 1347
Norton, J.J. Rm. G-228 G.S.
Ellis
Field Team, Reg. VII (2)

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

NOV 3 ...

Mr. G. W. McGee, President
Piedmont Mining Company
P.O. Box 323
Spartanburg, South Carolina

Re: Piedmont Mining Company
Pauline, South Carolina
Monazite - DMA 1493X

Dear Mr. McGee:

Under date of July 16, 1951, the DMA wrote you requesting information necessary to permit further processing of your application for an exploration project, DMA 1493X.

In view of the elapsed time during which no reply has been received from you, we assume that you are no longer interested in this project. Unless you advise us to the contrary within thirty (30) days, we shall accordingly close your docket.

Sincerely yours,

C O Mitteudorf

ACTING Administrator
Defense Minerals Exploration
Administration

This letter returned to us because of deficient (?) address. Suggest that file & application be held in abeyance as applicant will possibly write us on inquiry.
RPG. 12/11/51

400

FILE COPY
SURNAME:

Gordon
Mutt

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

NOV 30 1951

Mr. G. W. McGee, President
Piedmont Mining Company
P.O. Box 323
Spartanburg, South Carolina

Re: Piedmont Mining Company
Pauline, South Carolina
Monazite - DMA 1493X

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Sincerely yours,

C. O. Mittendorf (for) 11/30

ACTING Administrator
Defense Minerals Exploration
Administration

ERGordon'lm
11/27/51

cc: Admn. Reading File
Reports and Records
Mr. Kline, USBM, Bluemont, Va.
Mr. Warton, USGS
Mr. Hosted, AEC
Field Team Reg. VII
Docket

FILE COPY
SURNAME:

Gordon

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

July 16, 1951

Mr. G. W. McGee, President
Piedmont Mining Company
P. O. Box 323
Spartonsburg, South Cafolina

Re: Piedmont Mining Co.
Pauline, South Carolina
Monazite - DMA 1493x

Dear Mr. McGee:

Your application for an exploration project in the sum of $20,000, DMA docket no. 1493x, has been received by the Minor and Rare Metals Branch of the Supply Division.

Before your proposal can be considered further, it is necessary that you provide us with more precise information. Your replies to the various questions of form MF-103, while giving much general information, fail to describe your project in sufficient detail to permit the DMA to appraise its merit. Also we are at a loss from the meager data submitted to evaluate the contractors background of experience and ability to perform the work.

The following suggestions may serve as a guide to enable you to prepare a more comprehensive report on your contract proposal. First, what is the mining experience of your proposed manager? Second, what is the legal description of the ground to be included in the project? Third, what are the precise data substantiating your reply to question 18? Fourth, your reply to question 21 states only in very general terms the exploration work you prepose to perform; this in turn leads the DMA to believe the applicant also may be in doubt on this point. An adequate description of the proposed work and location of test openings is of course the first essential in submitting a proposal. Fifth, please read question 22 carefully, and supply data requested therein pertaining to the property under consideration. Also we would appreciate knowing why you believe that monazite can be mined commercially throughout the entire area? Normally only alluvial ground is considered as minable, and even much of this may be of non-commercial grade.

If you desire further guidance, we suggest you contact Mr. Robert Laurance, Executive Officer, Field Team VII, Room 13, Post Office Building, Knoxville, Tennessee.

Yours very truly,

Tom Lyon

Tom Lyon, Director
Supply Division

WBourret/bf
cc: Adm. Reading File
Reports & Records
Lyon
Field Team VII (2)
Norton
Kline, Bluemont, Va.
Bourret
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
Room 13, Post Office Building
Knoxville 01, Tennessee

July 3, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 5 1951
LANDON F. STROBEL
Executive Secretary

Memorandum

To: Tom Lyon, Chairman
Coordinating Committee
Defense Minerals Administration

From: Robert A. Laurence

Subject: Docket No. DMA-1493X - Piedmont Mining Co.

Transmitted herewith is field report on the above application. We are returning also the file on this application.

Robert A. Laurence

Robert A. Laurence
Executive Officer
DMA Field Team, Region VII

cc: Beck

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

Room 13, Post Office Building
Knoxville 01, Tennessee

July 3, 1951

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

Memorandum

To: Coordinating Committee

From: Field Team, Region VII

Subject: DMA 1493X, Piedmont Mining Company

This application was reviewed by William C. Overstreet, Geologist, U. S. G. S., on June 26, 1951. We would suggest that, in the future, applications of this kind which are entirely unsupported by any factual evidence should be returned to the applicant for further information.

Following is Mr. Overstreet's report:

"DMA application Docket 1493X of Piedmont Mining Co., Spartanburg, S. Car., gives a most unfavorable impression. In general, the application lacks pertinent discussion of the area to be explored, misrepresents conditions that obtain in the southeastern monazite belt, fails to outline an adequate system of exploration, and grossly pads the expenses. Detailed comments on this application are given below by paragraph number.

"We have no way except this application to judge the competence of the applicants; such judgement is unfavorable. The applicants obviously feel their exploration project is useless: this is expressed in their attitude which appears to be that there is just so much monazite lying around there is no use to explore.

"The location of the tract is on the eastern edge of the monazite belt and clearly is in an area where monazite can be found. The applicant should outline the specific areas to be explored, the system of exploration should be described, and the intended methods of mining (should the area prove out) should be noted. Intention to mine is important.

"To judge from aerial photographs this tract probably contains about 95,000 square yards of potential placer ground and possibly much less. At best the alluvium would be shallow. Large portions of this ground are wooded, which will increase costs of mining over cleared ground. Thus about 20 acres rather than 269 acres are suitable for exploration. Only alluvium can be mined; that is restricted to shallow narrow valleys. Hillside soils are most commonly an uneconomical source of monazite. Stream concentration of these soils is needed to produce workable ground. For this reason the bulk of the area covered by the application is unsuitable even though it is monazite-bearing.

"A review of the answers in the application follows:

4 (a) Qualifications pertient to the present application could and should be summarized.

10 Absolutely inadequate. The plot gives name as A. P. West; paragraph 11 gives name as J. Walter West Estate. Clarification from applicant required.

13 Even the stream is bold.

16 (a) If every mineralogical occurrence of monazite rates as a deposit, the statement is true.

(b) "In this area" is a meaningless designation; it is applicable from Morganton, N. Car., southward to Spartanburg, S. Car., a straight-line distance of 56 miles.

(c) Reference states that main S. Car production was near Cowpens, which is 13 miles NNE of Pauline.

18 The applicant does not restrict his discussion to the 269-acre farm, but is here reviewing the general discussion in Pratt's paper. The vagueness of "in this area" and the preceding discussion of the 25 x 100 mile belt, renders fantastic the statement: "It is conservatively estimated that the sands in this area will run $1\frac{1}{2}$ % Monazite." The term "sands" is undefined, one does not know if a heavy sand concentrate from alluvial gravels is meant, or if this refers to stream channel and terrace

sands in place, or if it refers to sandy soils of hillsides. Something of the order of magnitude of the concentration of monazite, when it is present, in these sources has been obtained from a study of more than 1,500 samples in 230 square miles in the heart of the monazite belt. These are about: heavy sand concentrates made from placer deposits - less than 1% to 80% of the concentrate; selected gravels in place in streams - less than 0.01% to 1.0%; sandy soils of hillslopes and hillcrests - less than 0.00002% to 0.025% of the volume. Nothing in paragraph 18 is pertinent to the application. Sampling procedure must be given to validate the 1½%. The purported "inexhaustible" supply of monazite is fantastic if applied either to the total farm of 269 acres or to the estimated 20 acres of alluvium.

19 As a review of the mineralogical distribution of monazite, the applicant is probably correct in stating that no stream fails to disclose monazite. The applicant is also correct in stating "The difficulty is not in where the Monazite sands can be found but where the operator prefers to commence to mine." That exactly sums up the bind of this application. No boundaries have been given for exploration other than the outline of a farm covering 269 acres. On this farm a generous estimate of alluvial ground is 20 acres. Only the alluvial ground can be considered as a potential mining area.

21 Nothing in the application has established estimated volume and tenor in a specified area. This paragraph is nothing less than a brazen admission that the application is a effort to raid the Treasury, not explore for monazite.

22 Statement is misleading and erroneous. Only carefully selected streams can be mined commercially.

23 All these people engaged in exploring 20 acres is excessive. The duties of two engineers, one chemist, a supervisor, a clerk, and a stenographer at a total of $625 per week for a short term exploration could be combined in one mining engineer (by no means unusual) at $125 per week. No office other than a tool shed on the property needed. Six laborers sufficient. The entire payroll is grossly padded. Cost of equipment and materials is underestimated.

24 Exploration must be restricted to the owned or leased land filed in the application.

"I cannot recommend this application for approval as it now stands.

William C. Overstreet
Geologist, U. S. G. S."

G. E. C.

Room 13, Post Office Building
Knoxville 01, Tennessee

July 3, 1951

Memorandum

To: Coordinating Committee

From: Field Team, Region VII

Subject: DMA 1493X, Piedmont Mining Company

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Room 13, Post Office Building
Knoxville 01, Tennessee

July 3, 1951

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"I cannot recommend this application for approval as it now stands.

William C. Overstreet
Geologist, U. S. G. S."

Mr. Bowerl

P. O. Box 236
Shelby, N. Car.
June 27, 1951

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Process Materials Administration
RECEIVED
JUN 29 1951
LANDON F. STROBEL
Executive Secretary

Mr. Robert A. Laurence
U. S. Geological Survey
Rm. 13, P. O. Bldg.
Knoxville 01, Tenn.

Dear Mr. Laurence:

DMA application Docket 1493X of Piedmont Mining Co., Spartanburg, S. Car., gives a most unfavorable impression. In general, the application lacks pertinent discussion of the area to be explored, misrepresents conditions that obtain in the southeastern monazite belt, fails to outline an adequate system of exploration, and grossly pads the expenses. Detailed comments on this application are given below by paragraph number.

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24 Exploration must be restricted to the owned or leased land filed in the application.

I cannot recommend this application for approval as it now stands.

Very truly yours,

William C. Overstreet
Geologist, U. S. G. S.

cc: Mr. Bourret

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

Mr. Robert Laurence, Region VII
Room 13
Post Office Bldg.
Knoxville, Tennessee

JUN 22 1951

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. DMA-1493x

Commodity Monazite and Rare Earths

Applicant Piedmont Mining Co.

Please expedite the consideration of this application with particular reference to the points noted in the attached "Review."

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 4 1951
LAWSON F. STROBEL
Executive Secretary

For Bureau of Mines

For Geological Survey

FILE COPY
SURNAME:

Bourret.
Wright for Roe
Moore

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

Mailed 6/22/51

June 21, 1951

Mr. George W. McGee
Piedmont Mining Co.
P. O. Box 323
Spartanburg, S. Carolina

Dear Mr. McGee:

Your application docket DMA-1493x for exploration project in the amount of $20,000.00 has been received by the Minor and Rare Metals Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team VII, Room 13, Post Office Bldg., Knoxville, Tennessee, with the request that the needed information be supplied to us.

Yours very truly,

Tom Lyon, Director
Supply Division

WBourret/mh
cc: Adm. Read. File
Strobel
Lyon
Bourret
Filed Team VII
Files

FILE COPY
SURNAME:

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

June 14, 1951

Mr. George W. McGee
President
Piedmont Mining Company
P. O. Box 323
Spartanburg, South Carolina

Subject: DMA-1493X
Re: Exploration Loan
J. Walter West Estate

My dear Mr. McGee:

Receipt is acknowledged of your application and attachments of June 1, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1493X and was referred to Mr. Weston G. Bourret, Acting Chief, Minor and Rare Metals Branch on June 6, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1493X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
Files
Bourret
Lyon

P. O. BOX
323

TELEPHONES
5281
5282

EDWIN W. JOHNSON
ATTORNEY AT LAW
118 WALNUT STREET
SPARTANBURG, S. C.

May 31, 1951

Registered Mail -
Return Receipt Requested.

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

Attention: Mr. William Bourret

Dear Mr. Bourret:

Mr. McGee and I enjoyed discussing Monazite with you in Washington a week ago today, on May 24.

After we got back Mr. McGee and another of our associates flew out to Knoxville to see Mr. Robert Lawrence. They were unable to see Mr. Lawrence personally but talked with others in his office and learned that application should be filed not later than May 31.

In accordance with the information obtained from you and the advice from Washington, I enclose herewith the original and 3 copies of Form MF-103, Application For Aid For An Exploration Project Pursuant To Mineral Order 5, Under Defense Production Act of 1950. I am also enclosing 3 maps.

I shall appreciate it if you will let me hear from you at your earliest convenience about this.

Yours very truly,

E. W. Johnson

E. W. JOHNSON

EWJ/es
Enclosures:
Application
Orig. & 3
Maps 3

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 - 1951
LANDON F. SINGELL
Executive Secretary

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 1495

Date received 3-1-51

Participation

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

Name and address of applicant

Date May 30, 1951.

FILL IN THIS BLOCK

Date of application May 30, 1951.

Estimated cost $20,000.00.

Mineral or metal Monazite & rare earths.

Percentage of Government participation 90%.

Location of mine 11 miles Southeast of Spartanburg, South Carolina.

Date of filing MF-100 None filed.

DMA Docket Number, if available 1493

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.

S-E-E A-T-T-A-C-H-E-D

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

15. State in detail how the ore could be shipped and how and where milled.

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Piedmont Mining Co.
(Name of company)

By George W. McGee
(Signature of authorized official)

May 30, 1951.
(Date)

President
(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

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

1. The applicant is a corporation.

2. Does not apply.

3. W. E. Dye,
E. W. Johnson,
George W. McGee,
T. L. Shippey,
George W. Whisenhunt,
all 5 of Spartanburg, S. C., are the officers and directors.

4. (a) Mining experience of the officers and directors is limited. The business experience is too varied to set out here.

(b) A. M. Phippen, life long mining Engineer, will manage the project.

5. Owner of the property: 269 acres.

6. No liens or encumbrances against the property.

7. Does not apply.

8. This is a new corporation formed for the purpose of exploring mineral rights mentioned above. It would serve no purpose to put money into the corporation until this Application to the Government is approved (unless demanded). The stockholders stand ready, willing and able to supply their proportionate part of the estimated capital requirements.

9. Five, ten to 15 thousand dollars, and it is sufficient to pay applicant's part of the estimated costs as detailed in question 23.

10. See attached Plat of the property in question.

11. Known as the "J. Walter West Estate".

12. This property is located on 3 paved highways about one mile South of the settlement known as Pauline, South Carolina. The nearest railroad and shipping point is Spartanburg, South Carolina, about 11 miles to the Northwest.

13. Main source of water is Dutchman's Creek, a large stream of clear water flowing very boldly during all seasons, and several small tributaries located on the property itself. The power proposed to be used would be that from gasoline motors. Although the property is served by R.E.A.

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

14. The proposed operation would not require any extensive buildings or structures, since the proposed operation would be of the placer type.

15. All recoveries of ore would be shipped by truck and/or rail from the nearest railhead.

16. (a) The entire area has Monazite deposits.

(b) In this area, in years gone by, Monazite was mined commercially when it was extensively used in gas mantles. Most of the mining at that time was done by individuals and by hand, using sluice box method. The then demand for Monazite ceased to exist about 1910.

(c) Specific reference is made to the report of Joseph Hyde Pratt, Ph. D., State Geologist for North Carolina, entitled -

"Zircon, Monazite and Other Minerals Used in the Production of Chemical Compounds Employed in the Manufacture of Lighting Apparatus"

published by the State of North Carolina in 1916, and known as Bulletin No. 25, with particular reference to page 52, in which specific reference is made to the Spartanburg County, South Carolina, area.

17. Production: None.

18. Tonnage from every known standpoint is inexhaustible, and extends through an area approximately 25 miles wide, 100 or more miles long, along the foothills of the Appalachian Mountain Chain. It is conservatively estimated that the sands in this area will run 1½% Monazite.

19. The difficulty lies not in where the Monazite sands can be found but where the operator prefers to commence to mine. All the streams in this territory have Monazite, some in greater quantities than others. No stream anywhere in this area, at any point and at any depth from the surface to bedrock, fails to disclose Monazite.

20. Chiefly for Monazite and any of the rare earth ores accompanying it.

21. As pointed out in Answer #19 above, the use of the word "exploration" is a misnomer in the instant application and while the applicant is entirely satisfied that the Monazite is in the area involved, the time required to complete the so-called exploration depends entirely upon what demands the Government may make. (SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

21. (CONTINUED FROM PREVIOUS PAGE)
The time estimate herein, as being required for the exploration, is purely theoretical and is based upon the amount of money for which application is made rather than upon the time which, in the opinion of the applicant, is necessary to complete the exploration. The estimated time is: 13 weeks.

22. The answer to this question is so well established on Monazite as to need no elaboration. Every Geological Survey made in this territory, including the past extensive mining operations hereinabove mentioned, indicated beyond a doubt that Monazite exists and can be mined commercially throughout the entire area, as shown on the North Carolina Geological and Economic Survey Map, between pages 50 and 51, of the North Carolina Bulletin No. 25 abovementioned.

In addition the following is a partial bibliography of Monazite in the Carolinas:

J. W. Lefforge and J. F. Haseman: Monazite Gravels of the Carolinas. Tennessee Valley Authority Report 496 (1943).

J. H. Pratt and D. B. Sterrett: Monazite and Monazite Mining in the Carolinas. Transaction AIME (1910) Vol. 40, pp. 313-340.

W. T. McDaniel: The Monazite Deposits of the Carolinas. Tennessee Valley Authority Open File Publication (1943).

23. (a) & (b) 15 men, (8 hours per day, 5 days per week), at $40.00 per week, or a total of.....$600.00 per week.

2 Mining Engineers and 1 Chemist at $125.00 per week, or a total of..... 375.00 per week.

Estimated office:
Administrative, correlating data, compiling records, statistics, etc.
Supervisory and clerical.
1 Supervisor
1 Clerk
1 Stenographer
a total of approximately..... 250.00 per week.

(h) Materials and supplies..... 50.00 per week.

Misc. Expense, office rent, telephone, etc. 50.00 per week.

(SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

23. (CONTINUED FROM PREVIOUS PAGE)

The total expense per week, according to the above, would average about $1325.00 per week, or, for 13 weeks, a total of.....$17,225.00

In addition, 2 New Pickup Trucks, would be necessary, at a cost of approximately $1500.00 each, or a total of..... 3,000.00

TOTAL..... $20,225.00

24. In accordance with the above estimate, it is believed that the project can be completed in 13 weeks. During this time we could sample and test the entire area of land owned and in addition equally that much additional territory which from a geiger account of reaction clearly indicates the presence of heavy deposits of Monazite sands. This additional territory, while not yet either owned or leased, can and will be purchased outright or leased on a royalty basis. The property in mind, lying outside of the area owned, likewise has Monazite sands, unlimited.

NOTE: As a further positive indication of the extensiveness of the widespread deposits of Monazite sands.--In 1910 and prior years individual farmers would wash the sands of their farms in sluice boxes and bring the sands to the local country stores where they were acceptable in trade or for cash. There are many of these sluice box miners still living and would wash the sands on their individual farms as a supplement to their farm income. The proposed exploration would show on what farms and in what locations the sluicing would be most advantageous.

Executive Secretary
ANDREW J. SHUGER
JUN 1 - 1951
RECEIVED
Defense Minerals Administration
DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 - 1951
LANDON F. STROBEL
Executive Secretary

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 1493

Date received 6-1-51

Participation

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

Name and address of applicant

Date May 30, 1951.

FILL IN THIS BLOCK

Date of application May 30, 1951.

Estimated cost $20,000.00.

Mineral or metal Monazite & rare earths.

Percentage of Government participation 90%.

Location of mine 11 miles Southeast of Spartanburg, South Carolina.

Date of filing MF-100 None filed.

DMA Docket Number, if available 1493X

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.

S-E-E A-T-T-A-C-H-E-D

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

15. State in detail how the ore could be shipped and how and where milled.

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Piedmont Mining Co.
(Name of company)

By George McGee
(Signature of authorized official)

May 30, 1951.
(Date)

President
(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

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

1. The applicant is a corporation.

2. Does not apply.

3. W. E. Dye,
E. W. Johnson,
George W. McGee,
T. L. Shippey,
George W. Whisenhunt,
all 5 of Spartanburg, S. C., are the officers and directors.

4. (a) Mining experience of the officers and directors is limited. The business experience is too varied to set out here.

   (b) A. M. Phippen, life long mining Engineer, will manage the project.

5. Owner of the property; 269 acres.

6. No liens or encumbrances against the property.

7. Does not apply.

8. This is a new corporation formed for the purpose of exploring mineral rights mentioned above. It would serve no purpose to put money into the corporation until this Application to the Government is approved (unless demanded). The stockholders stand ready, willing and able to supply their proportionate part of the estimated capital requirements.

9. Five, ten to 15 thousand dollars, and it is sufficient to pay applicant's part of the estimated costs as detailed in question 23.

10. See attached Plat of the property in question.

11. Known as the "J. Walter West Estate".

12. This property is located on 3 paved highways about one mile South of the settlement known as Pauline, South Carolina. The nearest railroad and shipping point is Spartanburg, South Carolina, about 11 miles to the Northwest.

13. Main source of water is Dutchman's Creek, a large stream of clear water flowing very boldly during all seasons, and several small tributaries located on the property itself. The power proposed to be used would be that from gasoline motors. Although the property is served by R.E.A.

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

14. The proposed operation would not require any extensive buildings or structures, since the proposed operation would be of the placer type.

15. All recoveries of ore would be shipped by truck and/or rail from the nearest railhead.

16. (a) The entire area has Monazite deposits.

(b) In this area, in years gone by, Monazite was mined commercially when it was extensively used in gas mantles. Most of the mining at that time was done by individuals and by hand, using sluice box method. The then demand for Monazite ceased to exist about 1910.

(c) Specific reference is made to the report of Joseph Hyde Pratt, Ph. D., State Geologist for North Carolina, entitled -

"Zircon, Monazite and Other Minerals Used in the Production of Chemical Compounds Employed in the Manufacture of Lighting Apparatus"

published by the State of North Carolina in 1916, and known as Bulletin No. 25, with particular reference to page 52, in which specific reference is made to the Spartanburg County, South Carolina, area.

Quote from reference — "In South Carolina the principal localities where monazite was produced were in the vicinity of Cowpens, Spartanburg County;" etc; etc.

17. Production: None.

18. Tonnage from every known standpoint is inexhaustible, and extends through an area approximately 25 miles wide, 100 or more miles long, along the foothills of the Appalachian Mountain Chain. It is conservatively estimated that the sands in this area will run 1½% Monazite. | Basis of estimate?

Total Property of 269 acres ??

19. The difficulty lies not in where the Monazite sands can be found but where the operator prefers to commence to mine. All the streams in this territory have Monazite, some in greater quantities than others. No stream anywhere in this area, at any point and at any depth from the surface to bedrock, fails to disclose Monazite.

20. Chiefly for Monazite and any of the rare earth ores accompanying it.

21. As pointed out in Answer #19 above, the use of the word "exploration" is a misnomer in the instant application and while the applicant is entirely satisfied that the Monazite is in the area involved, the time required to complete the so-called exploration depends entirely upon what demands the Government may make. (SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

21. (CONTINUED FROM PREVIOUS PAGE)
The time estimate herein, as being required for the exploration, is purely theoretical and is based upon the amount of money for which application is made rather than upon the time which, in the opinion of the applicant, is necessary to complete the exploration. The estimated time is: 13 weeks.

22. The answer to this question is so well established on Monazite as to need no elaboration. Every Geological Survey made in this territory, including the past extensive mining operations hereinabove mentioned, indicates beyond a doubt that Monazite exists and can be mined commercially throughout the entire area, as shown on the North Carolina Geological and Economic Survey Map, between pages 50 and 51, of the North Carolina Bulletin No. 25 abovementioned.

In addition the following is a partial bibliography of Monazite in the Carolinas:

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J. H. Pratt and D. B. Sterrett: Monazite and Monazite Mining in the Carolinas. Transaction AIME (1910) Vol. 40, pp. 313-340.

W. T. McDaniel: The Monazite Deposits of the Carolinas. Tennessee Valley Authority Open File Publication (1943).

23. (a) & (b) 15 men, (8 hours per day, 5 days per week), at $40.00 per week, or a total of.....$600.00 per week.

2 Mining Engineers and 1 Chemist at $125.00 per week, or a total of..... 375.00 per week.

Estimated office:
Administrative, correlating data, compiling records, statistics, etc.
Supervisory and clerical.
1 Supervisor
1 Clerk
1 Stenographer
a total of approximately..... 250.00 per week.

(h) Materials and supplies..... 50.00 per week.

Misc. Expense, office rent, telephone, etc. 50.00 per week.

(SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

23. (CONTINUED FROM PREVIOUS PAGE)

The total expense per week, according to the above, would average about $1325.00 per week, or, for 13 weeks, a total of.....$17,225.00

In addition, 2 New Pickup Trucks, would be necessary, at a cost of approximately $1500.00 each, or a total of..... 3,000.00

TOTAL..... $20,225.00

24. In accordance with the above estimate, it is believed that the project can be completed in 13 weeks. During this time we could sample and test the entire area of land owned and in addition equally that much additional territory which from a geiger account of reaction clearly indicates the presence of heavy deposits of Monazite sands. This additional territory, while not yet either owned or leased, can and will be purchased outright or leased on a royalty basis. The property in mind, lying outside of the area owned, likewise has Monazite sands, unlimited.

Restrict exploration to property under applicant's control?

NOTE: As a further positive indication of the extensiveness of the widespread deposits of Monazite sands.--In 1910 and prior years individual farmers would wash the sands of their farms in sluice boxes and bring the sands to the local country stores where they were acceptable in trade or for cash. There are many of these sluice box miners still living and would wash the sands on their individual farms as a supplement to their farm income. The proposed exploration would show on what farms and in what locations the sluicing would be most advantageous.

delete? restrict only to applicant's J. Walter Lucas Estate "farm"?

∴ 6½ weeks and $10,000?

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 - 1951
LAXOGN F. CERNSEL
Executive Secretary

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-1493

Date received 6-1-51

Participation

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

Name and address of applicant

Date May 30, 1951.

FILL IN THIS BLOCK

Date of application May 30, 1951.

Estimated cost $20,000.00.

Mineral or metal Monazite & rare earths.

Percentage of Government participation 90%.

Location of mine 11 miles Southeast of Spartanburg, South Carolina.

Date of filing MF-100 None filed.

DMA Docket Number, if available 1493

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.

S-E-E A-T-T-A-C-H-E-D

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

15. State in detail how the ore could be shipped and how and where milled.

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Piedmont Mining Co.
(Name of company)

By George (Signature of authorized official)

May 30, 1951.
(Date)

President
(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

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

1. The applicant is a corporation.

2. Does not apply.

3. W. E. Dye,
E. W. Johnson,
George W. McGee,
T. L. Shippey,
George W. Whisenhunt,
all 5 of Spartanburg, S. C., are the officers and directors.

4. (a) Mining experience of the officers and directors is limited. The business experience is too varied to set out here.

(b) A. M. Phippen, life long mining Engineer, will manage the project.

5. Owner of the property: 269 acres.

6. No liens or encumbrances against the property.

7. Does not apply.

8. This is a new corporation formed for the purpose of exploring mineral rights mentioned above. It would serve no purpose to put money into the corporation until this Application to the Government is approved (unless demanded). The stockholders stand ready, willing and able to supply their proportionate part of the estimated capital requirements.

9. Five, ten to 15 thousand dollars, and it is sufficient to pay applicant's part of the estimated costs as detailed in question 23.

10. See attached Plat of the property in question.

11. Known as the "J. Walter West Estate".

12. This property is located on 3 paved highways about one mile South of the settlement known as Pauline, South Carolina. The nearest railroad and shipping point is Spartanburg, South Carolina, about 11 miles to the Northwest.

13. Main source of water is Dutchman's Creek, a large stream of clear water flowing very boldly during all seasons, and several small tributaries located on the property itself. The power proposed to be used would be that from gasoline motors. Although the property is served by R.E.A.

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

14. The proposed operation would not require any extensive buildings or structures, since the proposed operation would be of the placer type.

15. All recoveries of ore would be shipped by truck and/or rail from the nearest railhead.

16. (a) The entire area has Monazite deposits.

(b) In this area, in years gone by, Monazite was mined commercially when it was extensively used in gas mantles. Most of the mining at that time was done by individuals and by hand, using sluice box method. The then demand for Monazite ceased to exist about 1910.

(c) Specific reference is made to the report of Joseph Hyde Pratt, Ph. D., State Geologist for North Carolina, entitled -

"Zircon, Monazite and Other Minerals Used in the Production of Chemical Compounds Employed in the Manufacture of Lighting Apparatus"

published by the State of North Carolina in 1916, and known as Bulletin No. 25, with particular reference to page 52, in which specific reference is made to the Spartanburg County, South Carolina, area.

17. Production: None.

18. Tonnage from every known standpoint is inexhaustible, and extends through an area approximately 25 miles wide, 100 or more miles long, along the foothills of the Appalachian Mountain Chain. It is conservatively estimated that the sands in this area will run 1½% Monazite.

19. The difficulty lies not in where the Monazite sands can be found but where the operator prefers to commence to mine. All the streams in this territory have Monazite, some in greater quantities than others. No stream anywhere in this area, at any point and at any depth from the surface to bedrock, fails to disclose Monazite.

20. Chiefly for Monazite and any of the rare earth ores accompanying it.

21. As pointed out in Answer #19 above, the use of the word "exploration" is a misnomer in the instant application and while the applicant is entirely satisfied that the Monazite is in the area involved, the time required to complete the so-called exploration depends entirely upon what demands the Government may make. (SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

21. (CONTINUED FROM PREVIOUS PAGE)
The time estimate herein, as being required for the exploration, is purely theoretical and is based upon the amount of money for which application is made rather than upon the time which, in the opinion of the applicant, is necessary to complete the exploration. The estimated time is: 13 weeks.

22. The answer to this question is so well established on Monazite as to need no elaboration. Every Geological Survey made in this territory, including the past extensive mining operations hereinabove mentioned, indicates beyond a doubt that Monazite exists and can be mined commercially throughout the entire area, as shown on the North Carolina Geological and Economic Survey Map, between pages 50 and 51, of the North Carolina Bulletin No. 25 abovementioned.

In addition the following is a partial bibliography of Monazite in the Carolinas:

J. W. Lefforge and J. F. Haseman: Monazite Gravels of the Carolinas. Tennessee Valley Authority Report 496 (1943).

J. H. Pratt and D. B. Sterrett: Monazite and Monazite Mining in the Carolinas. Transaction AIME (1910) Vol. 40, pp. 313-340.

W. T. McDaniel: The Monazite Deposits of the Carolinas. Tennessee Valley Authority Open File Publication (1943).

23. (a) & (b) 15 men, (8 hours per day, 5 days per week), at $40.00 per week, or a total of.....$600.00 per week.

2 Mining Engineers and 1 Chemist at $125.00 per week, or a total of..... 375.00 per week.

Estimated office:
Administrative, correlating data, compiling records, statistics, etc.
Supervisory and clerical.
1 Supervisor
1 Clerk
1 Stenographer
a total of approximately..... 250.00 per week.

(h) Materials and supplies..... 50.00 per week.

Misc. Expense, office rent, telephone, etc. 50.00 per week.

(SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

23. (CONTINUED FROM PREVIOUS PAGE)

The total expense per week, according to the above, would average about $1325.00 per week, or, for 13 weeks, a total of.....$17,225.00

In addition, 2 New Pickup Trucks, would be necessary, at a cost of approximately $1500.00 each, or a total of..... 3,000.00

TOTAL..... $20,225.00

24. In accordance with the above estimate, it is believed that the project can be completed in 13 weeks. During this time we could sample and test the entire area of land owned and in addition equally that much additional territory which from a geiger account of reaction clearly indicates the presence of heavy deposits of Monazite sands. This additional territory, while not yet either owned or leased, can and will be purchased outright or leased on a royalty basis. The property in mind, lying outside of the area owned, likewise has Monazite sands, unlimited.

NOTE: As a further positive indication of the extensiveness of the widespread deposits of Monazite sands.—In 1910 and prior years individual farmers would wash the sands of their farms in sluice boxes and bring the sands to the local country stores where they were acceptable in trade or for cash. There are many of these sluice box miners still living and would wash the sands on their individual farms as a supplement to their farm income. The proposed exploration would show on what farms and in what locations the sluicing would be most advantageous.

RECEIVED
JUN 1 - 1951
DEPARTMENT OF THE INTERIOR

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 - 1951
LANDON F. STROBEL
Executive Secretary

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 1493

Date received 6-1-51

Participation

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

Name and address of applicant

Date May 30, 1951.

FILL IN THIS BLOCK

Date of application May 30, 1951.

Estimated cost $20,000.00.

Mineral or metal Monazite & rare earths.

Percentage of Government participation 90%.

Location of mine 11 miles Southeast of Spartanburg, South Carolina.

Date of filing MF-100 None filed.

DMA Docket Number, if available 1493

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.

S-E-E A-T-T-A-C-H-E-D

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

15. State in detail how the ore could be shipped and how and where milled.

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Piedmont Mining Co.
(Name of company)

By George W. McGee
(Signature of authorized official)

May 30, 1951.
(Date)

President
(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

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

1. The applicant is a corporation.

2. Does not apply.

3. W. E. Dye,
E. W. Johnson,
George W. McGee,
T. L. Shippey,
George W. Whisenhunt,
all 5 of Spartanburg, S. C., are the officers and directors.

4. (a) Mining experience of the officers and directors is limited. The business experience is too varied to set out here.

(b) A. M. Phippen, life long mining Engineer, will manage the project.

5. Owner of the property; 269 acres.

6. No liens or encumbrances against the property.

7. Does not apply.

8. This is a new corporation formed for the purpose of exploring mineral rights mentioned above. It would serve no purpose to put money into the corporation until this Application to the Government is approved (unless demanded). The stockholders stand ready, willing and able to supply their proportionate part of the estimated capital requirements.

9. Five, ten to 15 thousand dollars, and it is sufficient to pay applicant's part of the estimated costs as detailed in question 23.

10. See attached Plat of the property in question.

11. Known as the "J. Walter West Estate".

12. This property is located on 3 paved highways about one mile South of the settlement known as Pauline, South Carolina. The nearest railroad and shipping point is Spartanburg, South Carolina, about 11 miles to the Northwest.

13. Main source of water is Dutchman's Creek, a large stream of clear water flowing very boldly during all seasons, and several small tributaries located on the property itself. The power proposed to be used would be that from gasoline motors. Although the property is served by R.E.A.

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

14. The proposed operation would not require any extensive buildings or structures, since the proposed operation would be of the placer type.

15. All recoveries of ore would be shipped by truck and/or rail from the nearest railhead.

16. (a) The entire area has Monazite deposits.

(b) In this area, in years gone by, Monazite was mined commercially when it was extensively used in gas mantles. Most of the mining at that time was done by individuals and by hand, using sluice box method. The then demand for Monazite ceased to exist about 1910.

(c) Specific reference is made to the report of Joseph Hyde Pratt, Ph. D., State Geologist for North Carolina, entitled -

"Zircon, Monazite and Other Minerals Used in the Production of Chemical Compounds Employed in the Manufacture of Lighting Apparatus"

published by the State of North Carolina in 1916, and known as Bulletin No. 25, with particular reference to page 52, in which specific reference is made to the Spartanburg County, South Carolina, area.

17. Production: None.

18. Tonnage from every known standpoint is inexhaustible, and extends through an area approximately 25 miles wide, 100 or more miles long, along the foothills of the Appalachian Mountain Chain. It is conservatively estimated that the sands in this area will run 1½% Monazite.

19. The difficulty lies not in where the Monazite sands can be found but where the operator prefers to commence to mine. All the streams in this territory have Monazite, some in greater quantities than others. No stream anywhere in this area, at any point and at any depth from the surface to bedrock, fails to disclose Monazite.

20. Chiefly for Monazite and any of the rare earth ores accompanying it.

21. As pointed out in Answer #19 above, the use of the word "exploration" is a misnomer in the instant application and while the applicant is entirely satisfied that the Monazite is in the area involved, the time required to complete the so-called exploration depends entirely upon what demands the Government may make. (SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

21. (CONTINUED FROM PREVIOUS PAGE)
The time estimate herein, as being required for the exploration, is purely theoretical and is based upon the amount of money for which application is made rather than upon the time which, in the opinion of the applicant, is necessary to complete the exploration. The estimated time is: 13 weeks.

22. The answer to this question is so well established on Monazite as to need no elaboration. Every Geological Survey made in this territory, including the past extensive mining operations hereinabove mentioned, indicated beyond a doubt that Monazite exists and can be mined commercially throughout the entire area, as shown on the North Carolina Geological and Economic Survey Map, between pages 50 and 51, of the North Carolina Bulletin No. 25 abovementioned.

In addition the following is a partial bibliography of Monazite in the Carolinas:

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J. H. Pratt and D. B. Sterrett: Monazite and Monazite Mining in the Carolinas. Transaction AIME (1910) Vol. 40, pp. 313-340.

W. T. McDaniel: The Monazite Deposits of the Carolinas. Tennessee Valley Authority Open File Publication (1943).

23. (a) & (b) 15 men, (8 hours per day, 5 days per week), at $40.00 per week, or a total of.....$600.00 per week.

2 Mining Engineers and 1 Chemist at $125.00 per week, or a total of..... 375.00 per week.

Estimated office:
Administrative, correlating data, compiling records, statistics, etc.
Supervisory and clerical.
1 Supervisor
1 Clerk
1 Stenographer
a total of approximately..... 250.00 per week.

(h) Materials and supplies..... 50.00 per week.

Misc. Expense, office rent, telephone, etc. 50.00 per week.

(SEE NEXT PAGE)

Piedmont Mining Co.
P. O. Box 323
Spartanburg, South Carolina

23. (CONTINUED FROM PREVIOUS PAGE)

The total expense per week, according to the above, would average about $1325.00 per week, or, for 13 weeks, a total of.....$17,225.00

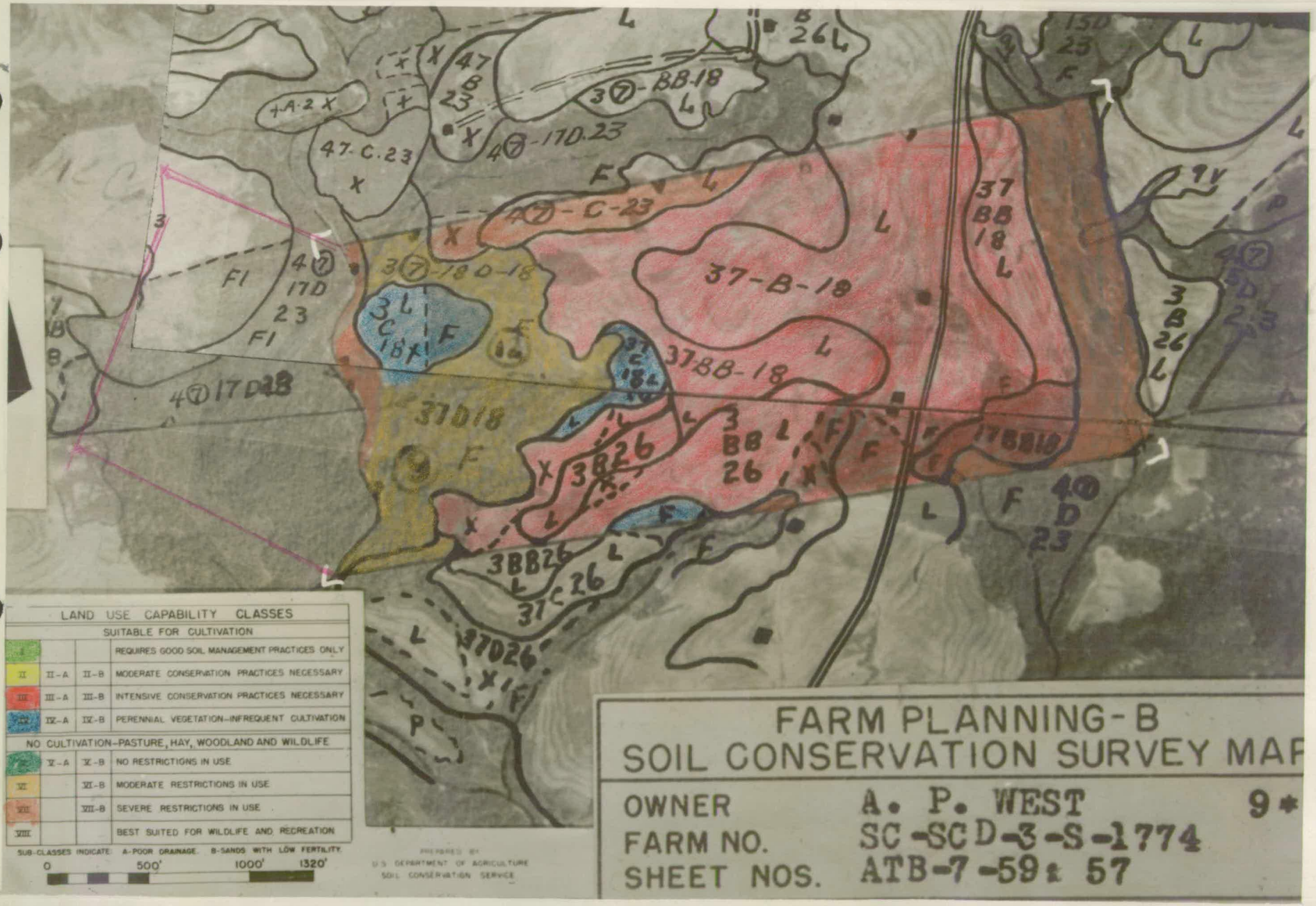
In addition, 2 New Pickup Trucks, would be necessary, at a cost of approximately $1500.00 each, or a total of..... 3,000.00

TOTAL..... $20,225.00

24. In accordance with the above estimate, it is believed that the project can be completed in 13 weeks. During this time we could sample and test the entire area of land owned and in addition equally that much additional territory which from a geiger account of reaction clearly indicates the presence of heavy deposits of Monazite sands. This additional territory, while not yet either owned or leased, can and will be purchased outright or leased on a royalty basis. The property in mind, lying outside of the area owned, likewise has Monazite sands, unlimited.

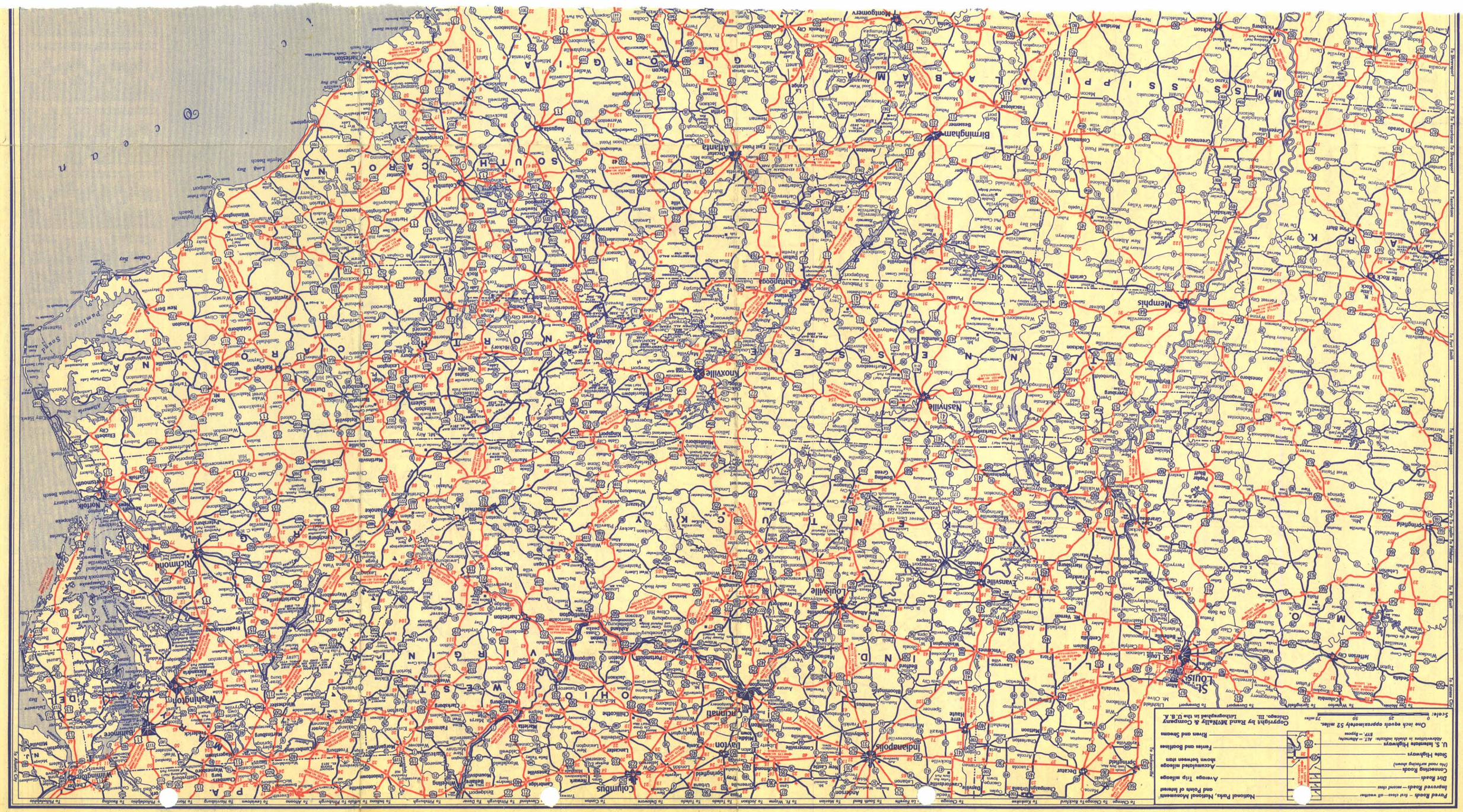
NOTE: As a further positive indication of the extensiveness of the widespread deposits of Monazite sands.--In 1910 and prior years individual farmers would wash the sands of their farms in sluice boxes and bring the sands to the local country stores where they were acceptable in trade or for cash. There are many of these sluice box miners still living and would wash the sands on their individual farms as a supplement to their farm income. The proposed exploration would show on what farms and in what locations the sluicing would be most advantageous.

Piedmont Mining Co.
P. O. Box 323
Spartanburg, S. C.



DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 - 1951
Executive Secretary

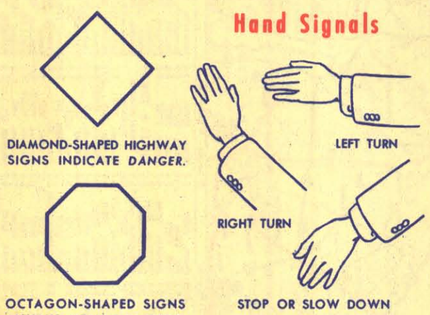
1 W. So. Pauline
#52



Be Careful!

OBSERVE ALL TRAFFIC SIGNALS AND RULES

Hand Signals



How Fast to Drive

Observe the official speed laws posted on all streets and highways. Consider them as *maximum* speed. Always drive so you can safely stop.

When to Pass

Never pass on hills, curves or intersections. Where a double line is painted in center of highway, it is unsafe to pass if the barrier, or second line, is on your side. Always warn a car behind you, before passing the car ahead.

THE LIFE YOU SAVE MAY BE YOUR OWN

Be *sure* with Pure

Motor Laws

SPEED LIMITS. North Carolina, 55 M.P.H. South Carolina, 55 M.P.H. Greater speed is prima facia evidence of careless driving.

RESIDENTIAL DISTRICTS. North Carolina, 35 M.P.H. South Carolina, 35 M.P.H.

BUSINESS DISTRICTS. North Carolina, 20 M.P.H., South Carolina, 25 M.P.H.

NON-RESIDENTS. North Carolina-South Carolina has reciprocal agreements with other states which give non-residents the same motoring privileges as those states give North Carolina and South Carolina residents.

PARKING. Do not park upon a public highway, bridge, hill, or curve where the view is obstructed.

ACCIDENTS. When any vehicle strikes a person or collides with another vehicle, it is the duty of the driver to stop immediately, render all possible assistance, and give name, address and license number.

CAUTION: Approach slowly and cautiously every parked vehicle, stopped street car, or other object which obstructs your view. Approach and cross all intersections at a slow rate of speed. Never guess what some other user of the road will do. Always drive at a rate of speed which will enable you to bring your car to a FULL STOP in the clear space directly ahead.

BE PREPARED. Carry spare bulbs for the headlights and an extra blade for the windshield wiper. These and other accessories are available at all Pure Oil stations and dealers. Always carry your registration certificate and operator's license when driving.

Example: Determine mileage between points as indicated by diagram. For example, the distance from Asheville to Charleston is 277 miles

	Asheville	Charleston
Charleston	277	

	Aiken, S. Car.	Anderson, S. Car.	Asheboro, N. Car.	Asheville, N. Car.	Augusta, Ga.	Charleston, S. Car.	Charlotte, N. Car.	Columbia, S. Car.	Durham, N. Car.	Elizabeth City, N. Car.	Fayetteville, N. Car.	Florence, S. Car.	Georgetown, S. Car.	Goldsboro, N. Car.	Greensboro, N. Car.	Greenville, N. Car.	Greenville, S. Car.	Greenwood, S. Car.	Hickory, N. Car.	High Point, N. Car.	Laurens, S. Car.	Lumberton, N. Car.	Mount Airy, N. Car.	New Bern, N. Car.	Orangeburg, S. Car.	Raleigh, N. Car.	Rock Hill, S. Car.	Rocky Mount, N. Car.	Salisbury, N. Car.	Savannah, Ga.	Shelby, N. Car.	Spartanburg, S. Car.	Sumter, S. Car.	Wilmington, N. Car.	Winston-Salem, N. Car.
Anderson, S. Car.	98																																		
Asheboro, N. Car.	227	218																																	
Asheville, N. Car.	171	94	184																																
Augusta, Ga.	16	92	241	175																															
Charleston, S. Car.	127	218	231	277	143																														
Charlotte, N. Car.	152	136	82	116	159	205																													
Columbia, S. Car.	59	117	168	162	75	114	99																												
Durham, N. Car.	271	283	68	244	287	269	148	212																											
Elizabeth City, N. Car.	421	459	241	425	437	383	323	362	179																										
Fayetteville, N. Car.	219	266	85	255	235	196	139	160	80	202																									
Florence, S. Car.	141	199	121	221	157	110	107	82	159	295	93																								
Georgetown, S. Car.	165	242	194	282	181	60	180	125	216	320	136	73																							
Goldsboro, N. Car.	278	325	123	305	294	239	198	219	74	146	59	152	179																						
Greensboro, N. Car.	245	228	26	189	252	257	93	192	55	234	97	147	220	129																					
Greenville, N. Car.	328	374	156	338	344	285	238	269	103	96	109	202	225	50	158																				
Greenville, S. Car.	109	32	184	62	113	222	102	108	249	425	241	185	233	300	194	340																			
Greenwood, S. Car.	55	43	205	116	59	175	123	74	271	436	234	156	199	293	216	343	54																		
Hickory, N. Car.	181	142	104	80	188	259	54	140	163	342	181	161	234	225	108	258	110	145																	
High Point, N. Car.	228	211	22	172	235	253	76	175	72	253	104	143	216	142	17	175	177	199	92																
Laurens, S. Car.	77	44	179	97	81	187	97	73	245	420	222	155	198	281	190	331	35	26	119	173															
Lumberton, N. Car.	201	254	102	243	217	163	127	142	113	235	33	60	103	92	128	142	229	216	181	124	210														
Mount Airy, N. Car.	264	220	78	152	271	304	111	210	121	302	163	194	267	195	66	224	188	228	96	56	202	180													
New Bern, N. Car.	341	388	185	367	357	258	260	281	136	122	121	208	196	62	191	43	362	355	287	204	343	154	257												
Orangeburg, S. Car.	54	142	209	206	70	76	142	43	247	389	187	94	108	246	235	296	151	99	183	218	115	154	253	302											
Raleigh, N. Car.	270	290	72	254	286	256	154	211	23	167	60	153	196	51	78	84	256	277	174	91	251	93	144	113	247										
Rock Hill, S. Car.	124	120	110	123	131	185	28	71	176	351	149	104	172	208	121	258	98	95	81	104	76	137	139	270	114	182									
Rocky Mount, N. Car.	314	346	128	310	330	283	210	255	68	111	95	188	223	44	123	36	312	329	230	140	307	128	189	79	282	56	238								
Salisbury, N. Car.	192	173	48	136	199	233	40	139	108	289	126	123	196	171	53	204	141	163	55	36	137	128	71	233	182	120	68	176							
Savannah, Ga.	128	220	306	299	128	111	246	147	344	486	284	191	171	343	332	393	237	183	287	322	205	251	357	367	115	343	218	379	286						
Shelby, N. Car.	140	101	120	73	147	227	43	113	180	361	182	150	222	241	125	276	69	104	41	108	78	170	129	303	156	192	50	248	72	260					
Spartanburg, S. Car.	108	62	154	66	115	211	72	96	219	395	211	155	216	270	164	310	30	65	80	147	39	199	168	332	140	226	68	282	111	244	39				
Sumter, S. Car.	102	160	150	200	118	98	107	43	188	330	128	39	82	167	176	237	151	117	161	172	116	99	218	247	59	187	90	223	147	156	140	134			
Wilmington, N. Car.	260	318	177	318	276	167	202	201	155	213	92	119	107	87	189	118	304	275	256	196	274	75	255	89	213	132	212	131	203	278	245	274	158		
Winston-Salem, N. Car.	230	213	41	160	237	271	78	177	84	263	126	161	234	158	29	187	179	201	79	19	175	143	37	220	220	107	106	152	38	324	112	149	185	215	

494702

North & South Carolina Mileage Table

Radio Stations

City	Call Letters	Chain	Kilo-cycles
Albany, Ga.	WALB	M	1590
Asheville, N. C.	WWNC	C	570
Atlanta, Ga.	WAGA		590
Atlanta, Ga.	WGST	C-M	920
Atlanta, Ga.	WSB	N	750
Augusta, Ga.	WRDW	C	1480
Baltimore, Md.	WBAL	N	1090
Birmingham, Ala.	WBRC	N	960
Birmingham, Ala.	WSGN	A	610
Burlington, N. C.	WBBB	M	920
Charleston, S. C.	WTMA	N	1250
Charlotte, N. C.	WAYS	M-A	610
Charlotte, N. C.	WBT	C	1110
Chattanooga, Tenn.	WAPO	N	1150
Chattanooga, Tenn.	WDOD	C	1310
Columbia, S. C.	WIS	N	560
Concord, N. C.	WEGO		1410
Dillon, S. C.	WDSC	M	800
Durham, N. C.	WHHT	M	1590
Greensboro, N. C.	WBIG	C	1470
Greensboro, N. C.	WCOG	A	1320
Greenville, S. C.	WFBC	N	1330
Henderson, N. C.	WHNC	M	890
Hickory, N. C.	WHKY	A	1290
Jacksonville, Fla.	WJAX	N	930
Jacksonville, Fla.	WPDQ	A	600
Louisville, Ky.	WHAS	C	840
Louisville, Ky.	WAVE	N	970
Macon, Ga.	WMAZ	C	940
Nashville, Tenn.	WLAC	C	1510
Nashville, Tenn.	WSM	N	650
Norfolk, Va.	WTAR	N	790
Raleigh, N. C.	WPTF	N	680
Richmond, Va.	WMBG	N	1380
Richmond, Va.	WRNL	A	910
Richmond, Va.	WRVA	C	1140
Roanoke, Va.	WDBJ	C	960
Savannah, Ga.	WTOC	C	1290
Spartanburg, S. C.	WSPA	C	950
Washington, D. C.	WMAL	A	630
Washington, D. C.	WRC	N	980
Washington, D. C.	WTOP	C	1500
Washington, N. C.	WRRF	A	930
Wilmington, Del.	WDEL	N	1150
Winston-Salem, N. C.	WSJS	N	600

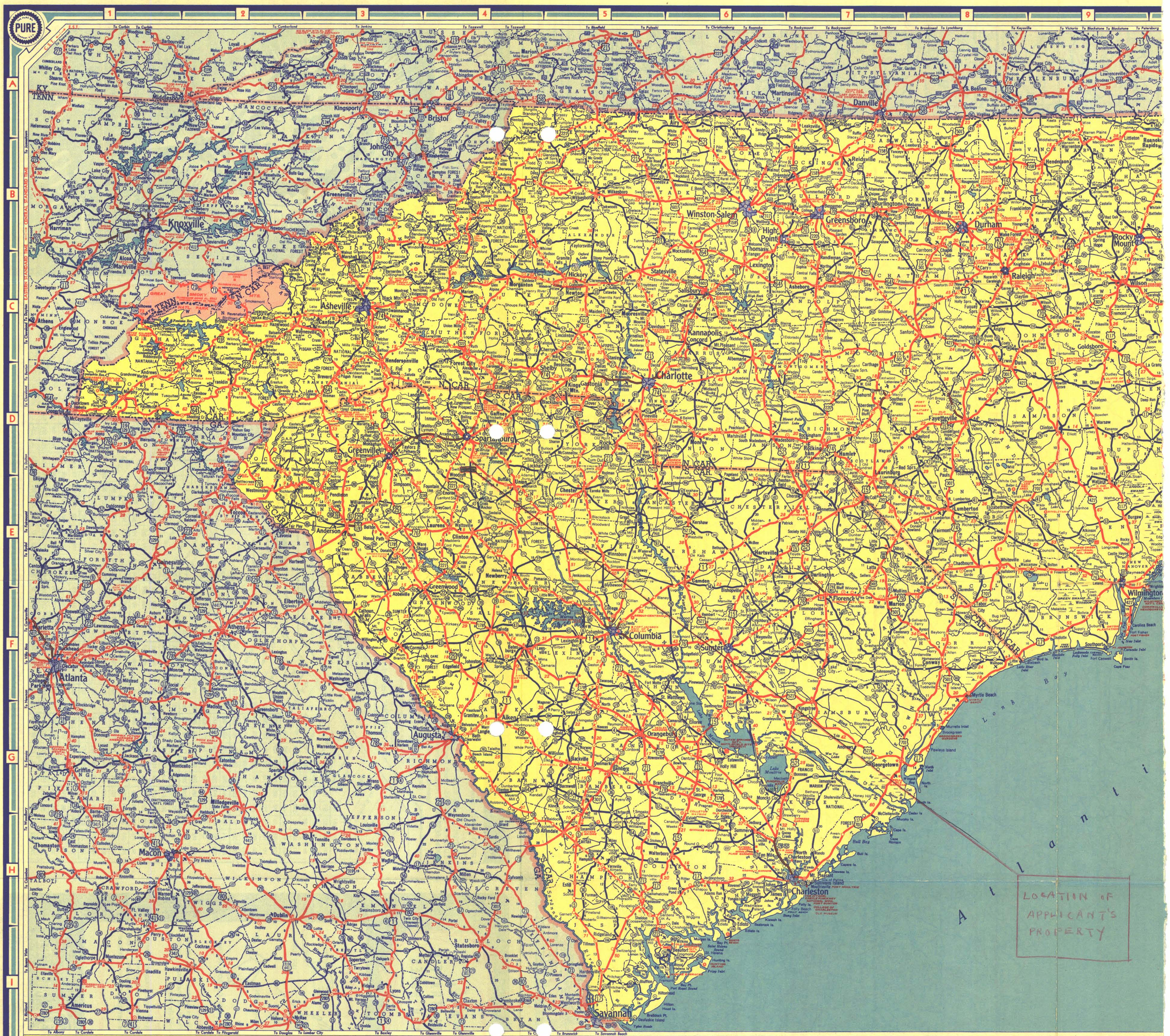
Chain Affiliation:
A—American
C—Columbia
M—Mutual
N—National

NORTH CAROLINA
SOUTH CAROLINA
AND SOUTHEASTERN STATES

Trip Map

COMPLIMENTS OF YOUR PURE OIL DEALER

49-A



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Population: 3,715,000 (1948 Estimate)
Area: 52,712 sq. miles
Capital: Raleigh

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Population: 1,991,000 (1948 Estimate)
Area: 31,055 sq. miles
Capital: Columbia

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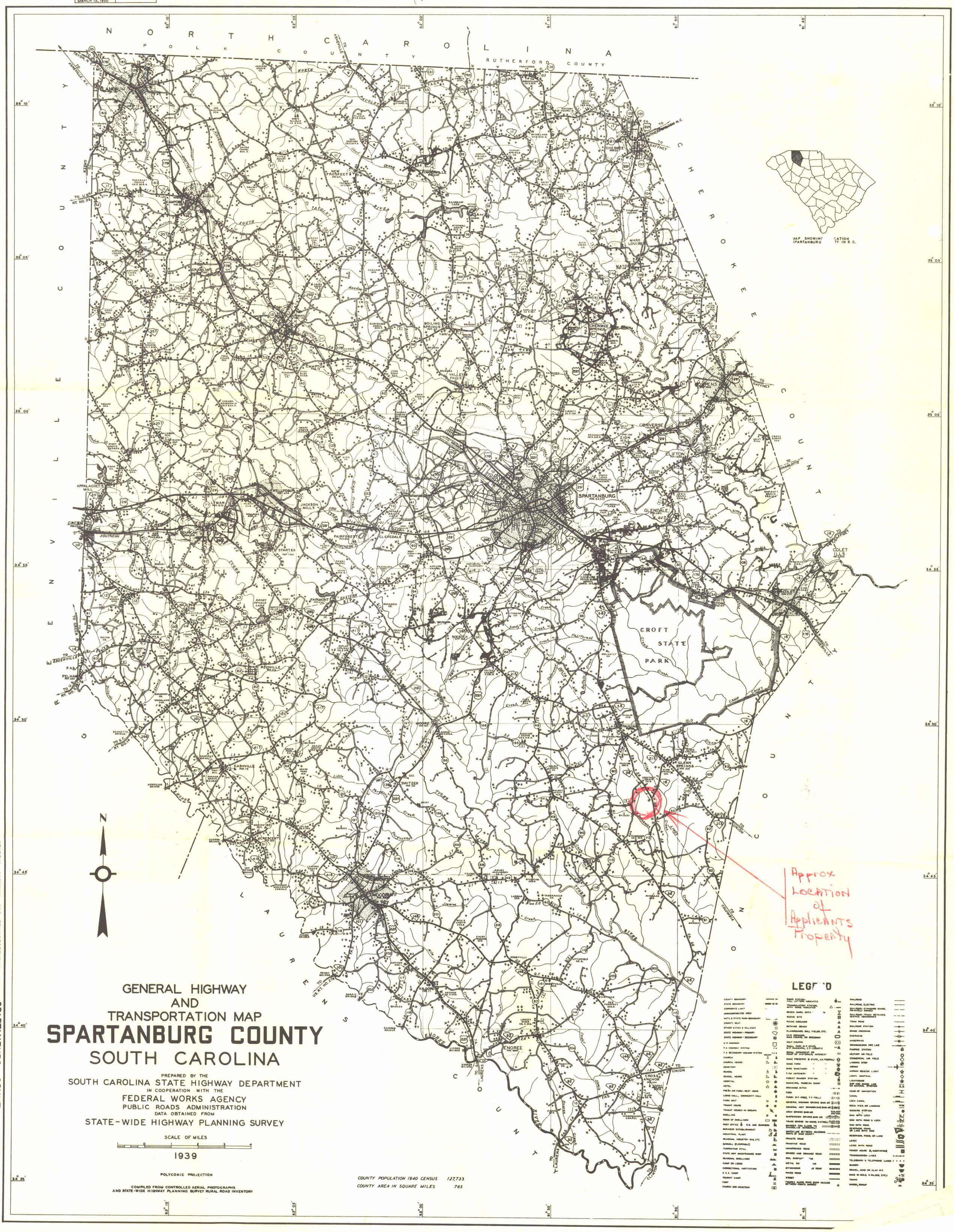
WHEN ENTERING A STATE NOT SHOWN HERE, STOP AT THE FIRST PURE OIL DEALER STATION FOR A MAP OF THAT STA

COMPLETED	FEBRUARY 23, 1940
REVISED	
STATE SYSTEM	COUNTY SYSTEM
SEPTEMBER 1, 1940	APRIL 12, 1946
OCTOBER 13, 1942	APRIL 1, 1947
MAY 1, 1943	DEC. 31, 1948
NOVEMBER 1944	DEC. 31, 1949
JUNE 10, 1946	
APRIL 1, 1947	
MARCH 15, 1950	

Piedmont Mining Co.
P.O. Box 323
Spartanburg, S.C.



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