Johnson City Tennessee 14421

Andrew J. Duffield (85)

2278 Myrtle ave.

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 14 1959

DATE	INITIALS	CODE
4-15	C	220
	~~Murphy~~	700
		225

Dear Sir,

I thank you very much for your help but I never did get a chance to write and tell you the real idea about that Defense mineral deal. This man came pretending to be a junior prospector for the government, he brought some Defense mineral paper and said this place had thorium ~~ore~~ it, ~~but~~ but later on after study mineral, I found out that he didn't know any thing about atomic mineral. and his name is Robert T. Lowe Jr and I spent a lot a money fooling around with him. I am now on government ~~property~~ in the area negotiating basalt on it and if mineral I come a cross is valuable I will make a claim on this national ~~public~~ government property, and will see that you get the samples you indicated

Yours truly
Andrew J. Duffield

No answer required
~~Murphy~~

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/13/58	Murphy	700
1/13	Ellis	700
14	Rittenhouse	100
		220
		225

JAN 14 1958

Mr. Andrew J. Duffield
227 East Myrtle Avenue
Johnson City, Tennessee

Dear Mr. Duffield:

This is to acknowledge your letters received December 9, 1957, and January 10, 1958.

We have not written to Mr. Schafer as you requested because it is not our policy to send out DMEA application forms unless requested to do so by the interested party.

Enclosed is the letter, dated October 23, 1957, from Mr. P. M. Ambrose, Superintendent Eastern Experiment Station, U. S. Bureau of Mines, which you requested to be returned.

We note that you plan to send more samples to this Agency. With respect to these samples, we wish to advise you that DMEA does not have facilities for assaying. Therefore, in the future, to save the needless expense of our forwarding such samples to other Government agencies, will you kindly follow the suggestion made in the last paragraph of Mr. Ambrose's letter.

Sincerely yours,

Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

Enclosure

FMMurphy/gla
1-13-58
cc to: Admr.'s Reading File
FMMurphy

8623

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 10 1958

DATE	INITIALS	CODE
1/10/58	H.H.	335
"	Murphy	700

Andrew J. Duffield
3278 Myrtle ave
Jefferson City Tenn

Dear Mrs Ellis:

I am hoping hear from you soon. And also have a iron mine that I can work this I can be handle it belong its a friend, for many years. I have been helping a lot people with their mineral resource Will send some sample of this iron I hope that you will help Mr Sheffer. With his Copper deal. he says this is around 25 mile of this mineral any thing I find I will be to the Dover meet I will send some sample.

Andrew Duffield

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 9 1957

DATE	INITIALS	CODE
12-9	C	220
"	Murphy	700
		225

Andrew J Duffield
Johnson City Tennessee.
2276 Myrtle ave

Dear Mr Ellis most of these mineral
Care from the mountains.
I am sending the report on the mineral
(Defense Exploration) The mineral Chrysocolla
is and ore of Copper, with copper silicate formed
by oxidation of other Copper minerals and is
thus associated with Malachite, azurite,
Cuprite, etc. usually Contains impurities.
my Friend Mr Shafer Can supply you with
all Copper the Government need. send him
a Defense mineral blank. the address
~~Jeffer~~ ~~Jeffries G. Shaff~~ Jeffries G. Schafer,
606 Lamont St
Johnson City Tenn.

if there any of these other minerals
would be of Vaules to you let me know
return my blank on minerals,
Your Truly
andrew Duffield

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION V

EASTERN
EXPERIMENT STATION

COLLEGE PARK, MARYLAND

October 23, 1957

Mr. Andrew J. Duffield
227 East Myrtle Avenue
Johnson City, Tennessee

My dear Mr. Duffield:

The samples and letter you sent to the Defense Minerals Exploration Administration have been referred to this station for examination and reply.

Your samples are as follows: 1- altered rock composed chiefly of chlorite and quartz; 2- [illegible] with chrysocolla; 3- gneiss composed mostly of feldspar, quartz, biotite mica, and garnet; 4- limonite; 5- magnetite; 6- manganese oxide with iron oxide; 7- manganese oxide; 8- gneiss composed essentially of hornblende, quartz, and feldspar; 9- ferruginous sandstone. The unnumbered samples are rocks and minerals. In the latter are clay minerals, limonite, magnetite, and molybdenite and the rocks are gneisses, schists, and pegmatites. Our tests did not detect the presence of any radioactivity. This indicates no significant amount of the radioactive elements thorium or uranium is present.

In our opinion, only the chrysocolla, magnetite, and molybdenite samples possibly may be of commercial value if they are representative of large deposits and can be economically mined.

If you should care to submit samples in the future for mineral identification, please send them directly to the U. S. Department of the Interior, Bureau of Mines, P. O. Box 2[illegible], Morris, Tennessee, as that station is concerned specifically with the mineral resources of your area. The package should be labeled with your name and address and accompanied by a letter from you requesting this work.

Sincerely yours,

[illegible] M. Ambrose, Superintendent
Eastern Experiment Station

Surname copy

700

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

DEC 17 1956

Mr. Andrew Jackson Duffield
227 East Myrtle Avenue
Johnson City, Tennessee

Re: Docket No. DMEA-4421 (Thorium)
Duffield-McArthur Property
Washington County, Tennessee

Dear Mr. Duffield:

This is with reference to our letter of November 14, 1956, regarding additional information needed to process the subject application.

As we have not received a reply to our letter, we are considering your application as having been withdrawn and are placing it in our inactive files.

We regret the necessity of taking such action, however, it is taken without prejudice to your proposed project. If at some future time you desire to reopen this case, you may do so by filing a new application, referring to the subject application by the DMEA docket number, and furnishing the information previously requested, together with any other information that you think might be helpful.

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/gla
12/14/56
cc to: Admr.'s Reading File
Docket
Messrs. Chas. T. Baroch, Rm. 3649
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700, Mr. Murphy
DMEA Field Team, Region V(2)

700

FILE COPY

Surname:

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

Mr. Andrew Jackson Duffield
227 East Myrtle Avenue
Johnson City, Tennessee

Re: Docket No. DMEA-4421 (Thorium)
Duffield-McArthur Property
Washington County, Tennessee

Dear Mr. Duffield:

This is to acknowledge receipt of your letter of November 7, 1956, and the Laboratory Report from the U. S. Geological Survey.

We note the sample you submitted was classified as shale with pyrite and that the material is currently of no value as a source of uranium. The report indicates that the radioactivity of the sample was low. Therefore, it could not possibly contain sufficient thorium to constitute commerical ore.

To date you have failed to submit the information requested in our letters of August 16 and September 20, 1956. We wish to cooperate with you fully in allowing ample time to supply the requested information; however, we cannot indefinitely postpone action on an application. Therefore, if we do not receive the requested information within 30 days from the date of this letter, we will consider the above-referenced application as withdrawn and place it in our inactive files.

Sincerely yours,

C. O. Mittenhof

Administrator

FMMurphy/izm 11-14-56
cc to: Docket
Code 700
Mr. Murphy
Admr.'s Reading File
DMEA Field Team, Reg. ~~III(2)~~ V, (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

So there is Defense Mencrials in this place. and I for information on the other mencrial. my ~~laboratory~~ laboratory number – AW-6216
RMW – 1229

finding the source you will have see the Naval Gun Factory. I have four or 5 different reports there I have been working the pegmatite for quite a ~~well~~ while. I have kept this a secret and I dont like for every to know what going on. I have reports on zinc lead, tin, aluminum and some was assay by a man he claim sodium, thorium, platinum, arsenic. I made a test with Hyochoric acid and it show Copper (Chalcopyrite) which is a change been evolution

Johnson City Tennessee.
227 E Myrtle ave.
Nov. 7. 1956
Andrew J. Duffield

DMEA-4421

RECEIVED NOV 8 1956 D.M.E.A.

Dear Mr Ellis:

I thought I would write you a letter concerning the mencrials in the hill. I have had a laboratory number with the Naval Gun Factory for almost a year, and they say the uranium is low and can't be mine for uranium alone. and they also the Government is not buying any other mencrial

When ammonia is added it turns purple blue.

Yours truly
Andrew Duffield

I fixing to shoot some place in the hill with powder have been very busy. I am ~~opin~~ opening a new vein which is bed then let me know right at the answer I wont be able to get Knoxville till 21 of Nov.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Building 213, Naval Gun Factory
Washington 25, D. C.

Date: May 28, 1956

Laboratory Report

Laboratory No.: AW-6216
RMW-1229

Mr. Andrew J. Duffield
227 East Myrtle Avenue
Johnson City, Tennessee

Weight: 3 lbs.

Source: none given

Type of Material: shale with pyrite

Results of examination: (Items apply only if marked with /✓/; do not apply if marked /na/).

1. /✓/ Radioactivity is low; the material is currently of no value as a source of uranium.

2. /na/ Minerals indicate they are from a pegmatite. The radioactivity is Many deposits of this type contain small concentrations of radioactive minerals but very few contain them in quantities sufficient to justify mining for radioactive constituents alone.

3. /na/ Equivalent uranium by radioactive determination is XXXXXXXXXXXXXXXXXX%.

4. /na/ Uranium by chemical analysis (true value) is XXXXXXXXXXXXXXXXXX%.

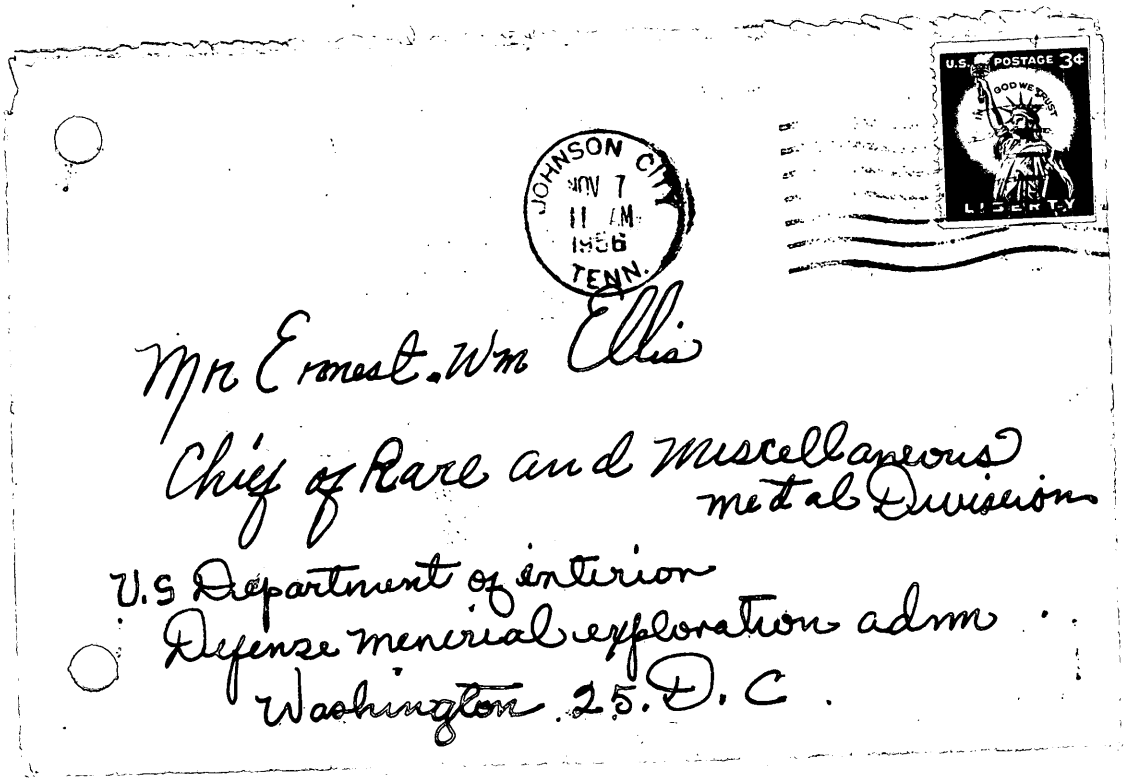
5. /na/ Excess of equivalent over chemical uranium (true value) indicates the higher radioactivity value is caused by other radioactive elements. No Government schedule exists now for general purchase of other minerals and ores, although thorium may some day be in demand for the Atomic Energy program.

Material submitted will be held for a period of 30 days from the above date after which it will be discarded unless return is requested.

Please refer to the above number if you should have occasion to write about this material or report.

Approved: Hugh H. Rex

Liaison Officer
Atomic Energy Commission Program
Geochemistry and Petrology Branch



Maps submitted, in envelope underneath.

9-27-56

Talked with Tom Pacus about application.
He received a sample from applicant, that
was sent to College Park for analysis.
They found material to be shale - unanalyzed.
Applicant also sent a sample that contained
metallic aluminum and zinc that he supposed
was smelted from the ore.

Suggest delaying reply to his undated letter
and forward copy his letter to Commodity
Number. If applicant submits additional
information, as indicated in his letter, file (with)

Recd.
9-27-56
EWE

Johnson City Tennessee
Andrew Griffith
227 E Myrtle ave
Johnson City Tenn.

DMEA - 4421

Dear Mr. Ellis.

I receive your letter and was very interested to hear from you. Md and my partner have decided as quick as possible we will give you all information we can and - are have more of this material physical in state. We are finding more of different type of metal and you will have part we have finish the assay. We thought there were only two are three important metal it seem that there 15 or 20 different one. This Carbon material is found go and any where from 20 to 30 thousand feet under the ground and the element of everything

Dear. Andrew Griffith

Contact mr poane physical chemist

Johnson City Tennessee.
August 21. 1956
A. J. Duffield

This model has already been forward
it has been mailed. The new find.
This not Johnson County but Correct
Washington County
State of Tennessee. East-tennessee
it is Distant of 40 miles
to Johnson County.

RECEIVED
AUG 27 1956

Johnson City Tennessee.
35.080 Pop
size 6th City in the state of Tennessee
this model found McArthur signature
on paper and every thing O.K.

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

Dear Sir:

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

Applicant _____

Docket No. _____

Commodity _____

Amount $ _____

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

Sincerely yours,

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

_____
Member, Bureau of Mines

_____
Member, Geological Survey

13759

Surname copy

700

Ellis
McKendry

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

SEP 20 1956

Mr. Andrew Jackson Duffield
227 East Myrtle Avenue
Johnson City, Tennessee

Re: Docket No. DMEA-4421 (Thorium)
Duffield-McArthur Property
Washington County, Tennessee

Dear Mr. Duffield:

The information you have supplied in answer to our letter of August 16 is wholly inadequate for the purpose of ascertaining the merits of your proposed exploration project.

First of all, only one map was received showing the location of your property. As stated in our letter of August 16, we require four copies each of all maps and answers to our questions. Again referring to our letter, please furnish us with proper answers to 1.(c), 1.(d), 2.(a), 2.(b), and the first paragraph on page 2 of the letter which requests a complete breakdown of the estimated cost of the proposed work.

We are again enclosing a set of application blanks (Form MF-103) so that we may have four copies for processing purposes.

Perhaps you may desire to contact the DMEA Executive Officer for Tennessee to obtain additional advice. The field examiners will not visit your property until four copies of an application are presented in good form and we have first had a chance to study the application in Washington. However, the Executive Officer may be able to assist you as to the proper filling out of the application. The Executive Officer is Mr. Robert A. Laurence, and his address is Room 13, P. O. Building, Knoxville 2, Tennessee.

We will withhold further action on your application for a reasonable time pending your compliance with our requirements. We would, however, appreciate advice as to the approximate time you will require within which to furnish the necessary information.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division

EWEllis/gla 9-19-56
cc to: Admr.'s Reading File
Docket
Messrs. Chas. T. Baroch, Rm. 3649
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700

Enclosures

DMEA Field Team, Region V (2)

Showing Value Thrift Saving,
Complete Books Record,
will be kept by
Duffield
Amount - lbs of material
Date, time, Place, location
When the mining begin inspection
Yours Truly
Andrew Jackson Duffield

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-4421
Metal or Mineral Thorium Holmium
Date Received August 21, 1956
Estimated Cost $50,000
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: ANDREW JACKSON DUFFIELD 227 E MYRTLE AVE
JOHNSON CITY TENN, PARTNER → M.T. McARTHUR.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract My name is Duffield I found the materials while prospecting and study geology and Science and my Partner owns the land.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise owner of land
M.T McARTHUR WE ARE PARTNER

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

(*e*) If you own the land, describe any liens or encumbrances on it NONE

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

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

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

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

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

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

RECEIVED
AUG 27 1956

5. *The exploration project.*—(a) State the mineral or minerals for which you wish to explore PRECIOUS AND RARE EARTH MINERAL

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

(*c*) The work will start within 90 days and be completed within FULL months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

By LABOR.

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated _____, 195__

(Applicant)

By Andrew J. Duffield

227 Myrtle Ave

Johnson City, Tennessee

N. W. Brown

Johnson City

Tenn

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

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

Sample

MF-200
(Revised June 1954)

Docket No. DMEA 4421 (THORIUM)

Commodity .....

Contract No. Idm-E .....

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this 21 day of august, 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] .....

whose mailing address is ANDREW JACKSON DUFFIELD 227 E MYRTLE AVE M.T. McARTHUR . JOHN SEVIER HOTEL JOHNSON CITY TENN, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200), the attached Exhibit "A," Annex I, and .....

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of TENNESSEE, County of WASHINGTON, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] see papers of [5] Papers in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] see papers, [7] ..... recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: .....

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

CATEGORY (6)—NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

CATEGORY (7)—MISCELLANEOUS.—Repairs and maintenance (other than initial) of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, communications, and any other items of requirement or cost that do not fall within any of the first 6 categories.

THE ESTIMATED TOTAL ALLOWABLE COST of the work is a maximum.

(b) *Nonallowable costs.*—The following costs are not allowable for contribution by the Government:

(1) *Costs of the land,* such as rental, depreciation, depletion, or other cost of acquiring, owning, or holding possession;

(2) *Indirect costs,* such as general overhead, corporate management, interest, taxes (other than payroll and sales taxes), insurance (other than liability insurance covering employment), damages to persons, damages to property (other than necessary repairs or replacements of equipment or other property used in the work);

(3) *Previous work* performed or costs incurred before the date of this contract; and

(4) *Deferred payments.*—Any costs incurred by the Operator under any rental-purchase agreement, installment-purchase agreement, or any agreement for the purchase of goods under the provisions of which payment of the full purchase price is deferred more than 90 days from the delivery of the goods; unless the purchase agreement is approved by the Government in writing.

(c) *Reductions in costs.*—The Operator shall account for and give the Government credit for any incidental benefits, credits, or money received in the ordinary course of business in prosecuting the work (as by salvage or sale of materials or equipment, furnishing of room or board, furnishing of power or services to third persons, rebates or discounts on purchases, etc.), in the same ratio in which the Government contributes to costs; and such amounts shall be treated as a reduction in costs incurred so that they are available for use within the limit of the original estimated total cost. This provision does not apply to receipts from production which are subject to the Government's percentage royalty under the provisions of Article 9.

ARTICLE 7. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. If the Government elects to audit said records and accounts relating to the exploration work by certified public accountant, it may do so as a cost of the work to which the Operator shall contribute. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government. If work under this contract is carried on in conjunction with any other operations, or if labor, supervision, services, materials, supplies, equipment, facilities, or other requirements for carrying on the work are also used in connection with other operations, the costs shall be segregated and accounted for on a basis and by methods and accounts that are satisfactory to and approved by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing detailed costs incurred during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and related costs incurred.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 8. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 7) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value therof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½)

percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 9. *Interests in purchased property.*—(a) *Title and ownership.*—All costs under this contract shall be incurred by the Operator in the Operator's own name and for the Operator's own account; but any property acquired to the cost of which the Government contributes shall belong to the Operator and the Government jointly in proportion to their respective contributions, although title thereto shall be taken in the name of the Operator.

(b) *Preservation of property.*—Until the final disposal of any property in which the Government has an interest the Operator shall preserve and protect same for the best interest of the Government, any reasonable and necessary costs thereof to be treated as an allowable cost of the project. After the completion of the work or termination of the Government's obligation to contribute, or when such property is not in use for or needed for the work, the Operator shall neither use it without the written consent of the Government nor without paying a reasonable rental to be fixed by the Government for its interest.

(c) *Disposal of property.*—Upon the completion of the work or termination of the Government's obligation to contribute to costs, or when the property is no longer needed for the work, the Operator shall promptly dispose of salable or salvageable property in which the Government has an interest for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator or the Government at a price at least as high as could be obtained from others, unless the Government in writing waives its interest in any such property. Without advance approval of the sales price by the Government the Operator shall not sell at any price any item of property the cost of which was more than $500, and shall not sell at less than 25 percent of the purchase price any item of property which cost $500 or less. The Government, in lieu of approving the sales price for any such item, may itself purchase the item at the best price which the Operator is able to obtain or himself cares to give. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, or explosives, or pipe, or rails), and if the original cost of the remaining unexpended portion of any such group or category is less than $50, the Government waives its interest therein. If necessary to accomplish the disposal of any item the Operator shall dismantle and sever it from the land, the cost thereof to be treated as a cost of the project.

(d) *Default of the Operator re disposal.*—If within 90 days after the completion of the work or termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, or after such further time as the Government may in writing allow, the Operator has failed to sell or otherwise liquidate or dispose of any property in which the Government has an interest, the Government, at any time prior to final settlement under the contract, may pursue one of the following two courses: (1) the Government, by written notice to the Operator, may place upon such property what in its opinion is a fair valuation thereof, not in excess of the cost less 1.66 percent per month from the

date such property was purchased under this contract to the termination of said 90-day period; and such property shall thereupon be considered and accounted for as having been purchased by the Operator at the valuation so fixed by the Government; or (2) the Government may enter and take possession of such property wherever it may be found, and remove and dispose of it for the joint account of the parties.

ARTICLE 10. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon: (1) the Government shall be free of all obligation to contribute to costs not then incurred other than such as may be allowable under the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon: (1) the Government shall be relieved of all obligation to contribute to costs not incurred when the notice was given, other than such as may be allowable by the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 10 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 11. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 12. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 13. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Andrew Jackson Duffield

(Operator)

By

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70617-1

MF-205
(Combines and supercedes MF-20[illegible] and MF-203)
June 1956

Sample

[illegible] Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator A.J. DUFFIELD
Docket No. DMEA-4421 (THORIUM)
Contract No. Idm-E
Contract Date Aug 21, 1956

CONSENT TO LIEN
and
SUBORDINATION AGREEMENT 1/

To the United States of America:

Referring to that certain land in the County of WASHINGTON, State of TENNESSEE, described as follows: 2/
Andrew Jackson Duffield M.T. McArthur
LAND CONTAIN A LODE DEPOSIT OF RARE AND PRECIOUS MINERAL

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom, to secure the payment to the Government of a percentage royalty on production as may be provided for by the Contract;

3. Subordinates the undersigned's right, title, claim, or interest in, or against the land and in any production therefrom to the rights of the Government under the contract with respect to royalty on production and liens to secure same;

4. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none." Do not leave lines blank.)

NONE

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

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

5. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this Agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land, or any production therefrom furnishing the Government with two copies of such notice; and

6. Consents to all amendments (including an agreement of termination) and assignments of the contract without notice thereof, and undertakes and agrees that this Agreement shall extend and apply thereto.

7. Added provision: NONE (State "None" or "See Annex No.____")

Dated this 21 day of August, 1956

M. T. McArthur	[Seal]	John Sevier Hotel	[Address]
M. T. McARTHUR	[Seal]	Johnson City Tenn	[Address]
A. J. Duffield	[Seal]	127 E Myrtle Ave.	[Address]
	[Seal]	Johnson City Tenn	[Address]
	[Seal]		[Address]
	[Seal]		[Address]

I, Duffield A J certify that I am the Operator (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then My Partner (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____ [Corporate Seal]

We intend to form the Company known as Mining Company to Carry more than one mineral there may minerals and Metals. We will decide when the proposition comes A J Duffield

The land belongs to my Partner
I am in charge of this operation
it has a lot of acres yet to be
We don't know how deep it runs
We do know that it is a great
mineral area - We can move
lots of material, with out a
drill at the present time as
of one bulldozer. one large
and 3 to 4 trucks. shovel.
I have been checking some of the
material with my magnesium scope.
We also have numerous small
fragments metal which melted
white and a purple and
material and these were hard
to have melted. This was
found yesterday.

[illegible] of
Of [illegible] field of mineral
Carbon material [illegible] in the
[illegible]. We are working a
[illegible]. Which is known as
in the home of [illegible]
minerals. In the [illegible]
removing [illegible] as quartz
as [illegible] and [illegible]
[illegible] 9 [illegible]
[illegible] the [illegible]
[illegible] Coal and [illegible]
The Distant to close [illegible]
[illegible] and
in [illegible] [illegible]
a [illegible].

RECEIVED
AUG 23 1956

Johnson City, Tennessee.
A. J. Duffield

DMEA 4421

I will send the Contract
over as my Fortune depends !!
Yes Rome.

Dear Sir:

The material in which the rare and Precious mineral are found in a BLACK SHALE which is known as Carbonaceous shale meaning Contain Carbon. We are ~~at~~ interested in starting 90 day it is no telling how many years this mine will last. We found it be a lode of many type mineral and metals.

The Vain and Layers seem ~~in Over~~ get larger. Of Course there many ~~use~~ things use made of Carbon material. There ~~is~~ nothing to stop the Mining Operation some this mineral ~~1 lb 1/2~~ 1½ lb mineral will Produce ½ lb of metal. When melted.

Yours Truly

Andrew Duffield

RECEIVED
AUG 23 1956

(map in envelope)

Surname copy
700
Ellis
Mittenhof

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

AUG 16 1951

Mr. Andrew Jackson Duffield
227 East Myrtle Avenue
Johnson City, Tennessee

Re: Docket No. DMEA-4421 (Thorium)
Duffield-McArthur property
~~Johnson County (?)~~, Tennessee
Washington

Dear Mr. Duffield:

In reviewing your application for aid in an exploration project, we find the information far too meager for further processing. Only one copy each of Form MF-103 and a rough sketch were received. We require four copies of the application and four copies of the answers to all the questions asked, which will require separate sheets of paper, and four copies of all maps or sketches.

Furthermore, to enable us to make a preliminary appraisal of the merits of your proposed project, the following information should be submitted:

1. A map or sketch drawn to scale whereon the following should be shown:

   (a) The mining claims or boundaries of the land you propose to explore;
   (b) The present workings, if any, drawn to the same scale as the claim map and in true relation to the property boundaries;
   (c) Location of any samples taken, how the samples were procured, and the chemical analyses of said samples, supported by the assay certificates; and
   (d) The extent and location of all the proposed work, i.e., underground or by drilling, etc.

2. A narrative report containing the following information:

   (a) An itemized estimate of the cost of the exploration you propose to do.
   (b) The vertical section sketch accompanying the application gives us some idea of the geology. It will be necessary, however, for you to give us some information as to the thickness of the vein in which the thorium or "rare earth mineral" occurs.

It is noted that you are requesting Government participation in a project costing some $50,000.00. As stated above, you will have to explain just how and where the $50,000.00 is to be expended, breaking this amount down into categories so that we may get a picture of what you propose to do and the cost thereof. Furthermore, it is noted that you propose to furnish your share of the costs by labor. Since the Government may participate in a thorium or rare earth project on a 75 percent basis, or $37,500.00, this would mean that your labor would represent some $12,500.00. Does that include equipment which you possibly own and will use, or is it straight labor? If so, it is very much out of line with our present practice.

We note that you do not state the location of your property. It is assumed that it is in Johnson County, Tennessee. Tennessee is within the jurisdiction of our Region V, and the address of the DMEA Executive Officer, Mr. Robert A. Laurence, is Room 13, Post Office Building, Knoxville 2, Tennessee. However, until we have received four copies of the application, the answers to all the questions, and the proper maps mentioned above, we will be unable to refer the application to our Regional Office for further investigation. Kindly let us know the approximate time you will require to furnish all of the information requested.

I am enclosing a set of application blanks and other pertinent information dealing with the Defense Minerals Program administered by this Agency.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

Enclosures

EWEllis/ai 8-15-56
cc to: Docket
Admr.'s Reading File
JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
DMEA Field Team, Region V (2)

August 14, 1956

Mr. Andrew J. Duffield
227 E Myrtle Avenue
Johnson City, Tennessee

Subject: DMEA-4421
Re: Exploration Assistance

Dear Mr. Duffield

The receipt of your application dated August 11, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4421 and referred to the Rare & Misc. Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

ALLEN S. DAMAN
[redacted], Chief
Operations Control and
Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
AUG 13 1956

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

Not to be filled in by applicant

Docket No. 4421
Metal or Mineral THORIUM, HOLEIUM
Date Received AUGUST 18, 1956
Estimated Cost $50,000
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: ANDREW JACKSON DUZZIELD 227E MYRTLE AVE JOHNSON CITY TENNESSEE.
PARTNER → B) M.T. McARTHUR Johnson City Tenn

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract MY NAME IS DUZZIELD I FOUND THIS MATERIAL WHILE PROSPECTING AND STUDY GEOLOGY AND SCIENCE, AND MY PARTNER, OWN THE LAND

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise OWNER LAND M.T. McARTHUR, WE ARE PARTNERSHIP.

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

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

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

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

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

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

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

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

16—66551-1

5. *The exploration project.*—State the mineral or minerals for which you wish to explore Pyrolusite and rare earths Mineral

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

(*c*) The work will start within 90 days and be completed within FULL months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

By LABOR.

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated AUGUST 11, 1956

(Applicant)

By ANDREW JACKSON DUFFIELD

227 E MYATLE AVE

JOHNSON CITY TENNESSEE

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

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

The only mineral re move has been sample taken out by me and forward to the U.S. Bureau of mine Washington D.C.

A. J. Duffield.

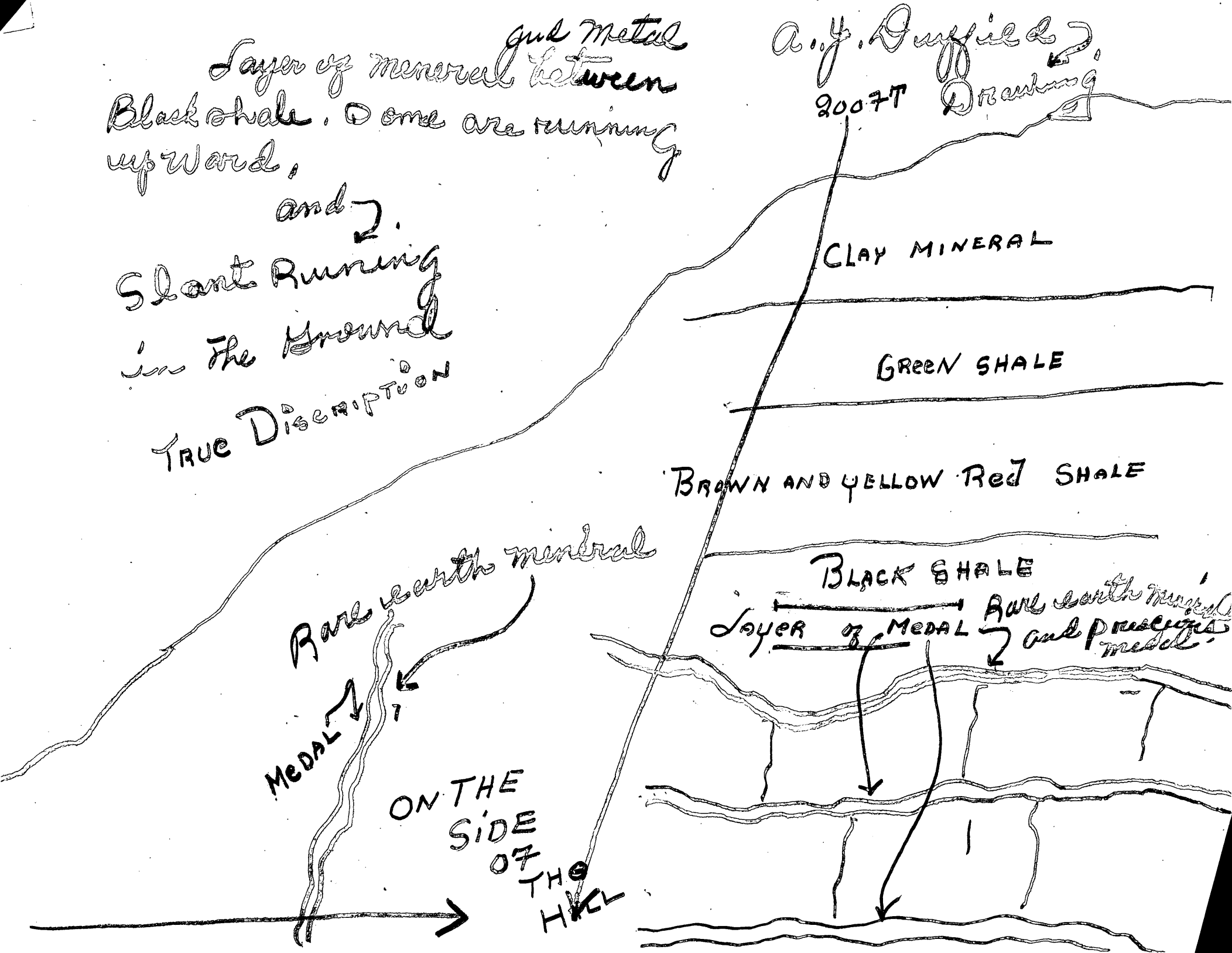
RECEIVED
AUG 13 1956

Layer of mineral gut metal between Black shale. Some are running upward,

and 2. Slant Running in the Ground

TRUE DISCRIPTION

A. J. Duffield 2007T Drawing



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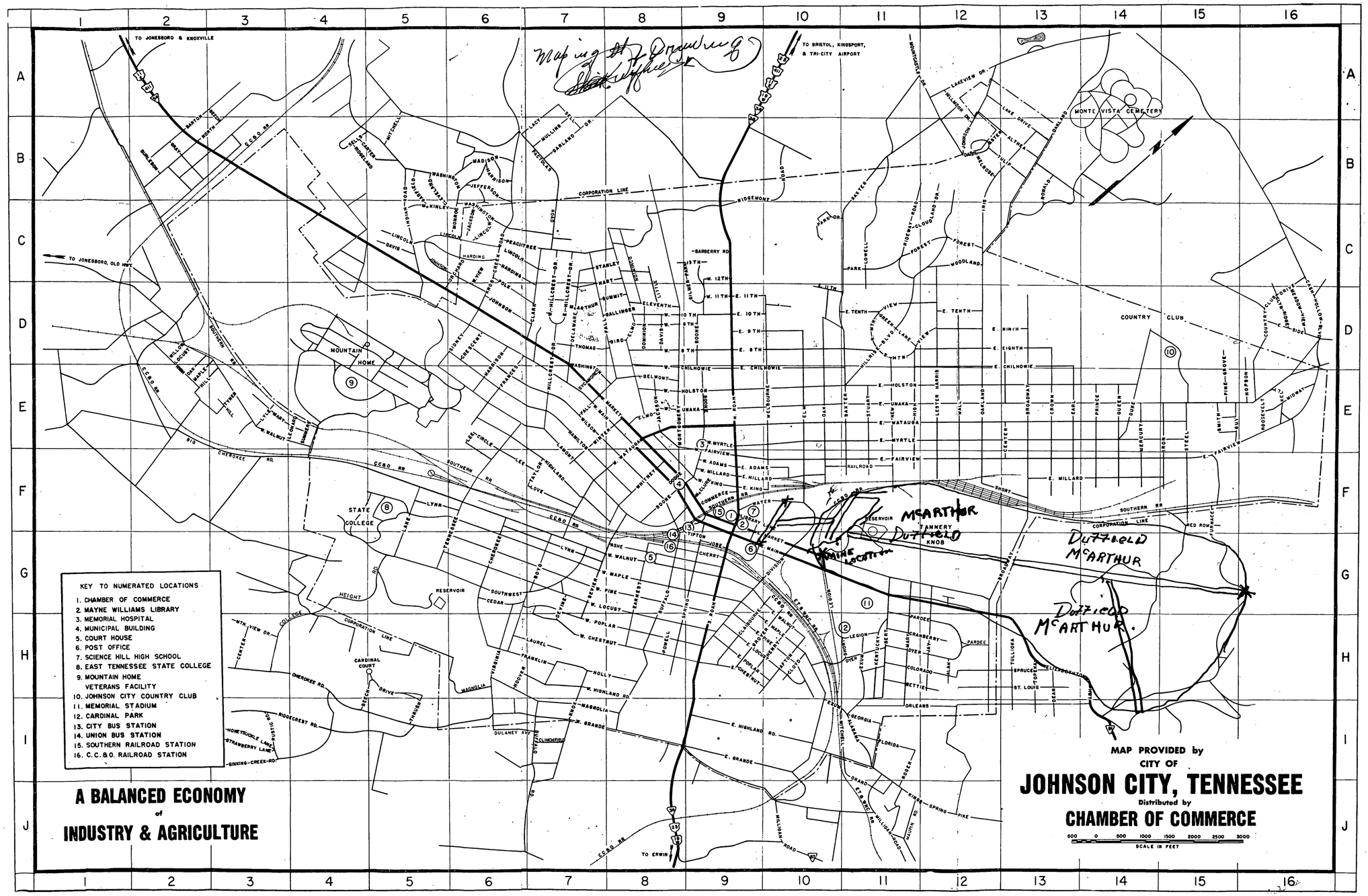

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