Crawford

May 30, 1955

RECEIVED
JUN - 3 1955

Re: Projected Core-Drilling
32 Claims in Section 4-17N-23E,
Navajo County, Arizona

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

Gentlemen:

I am enclosing Application for Aid in an exploration project pursuant to DMEA Order--1 Amended under the Defense Production Act of 1950, as amended. In this application I found that the Form MF103 had insufficient space on which to place the information so I attached the explanation to this form. Further, I included Exhibits which would more clearly explain the situation relative to this application.

Titles to all 32 claims have been checked and approved. I am now ready to begin operations. Time is very important to me and should you be in a position to expedite this matter I would greatly appreciate it.

Yours respectfully,

Lease Bonifield

Lease Bonifield
Box 382
Abilene, Texas

LB:ih

Encl.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN - 9 1955

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. 3851
Metal or Mineral Uranium
Date Received 6/9/55
Estimated Cost $36000
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: Lease Donifield
Box 382
Abilene, Texas

(*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 32 claims located in Section 4-17N-23E, Navajo County, Arizona, including all the Section but 4 small claims in the South Part of SE 1/4

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it Please refer to Exhibit "A"

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

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. (attached explanation)

(*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.

(Explanation attached)

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore U_3O_8

(*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 60 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] 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 May 30, 1955

Lease Bonifield (Applicant)

By

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

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

Lease Bonifield
Box 382
Abilene, Texas

RECEIVED
JUN - 9 1955

PHYSICAL DESCRIPTION

(a) There is one outcrop of ore on the claims under consideration and is located on Annette #2 Claim in the Northeast part of Section #4 - its position may be noted on the plat attached as Exhibit "B". At the site I have excavated a shaft 4'x6'x8 which penetrates the ore-bearing formation. This shaft is readily accessible by auto and may be thoroughly examined with little effort.

(b) The only ore removed is that which has been taken from the previously mentioned shaft.

(c) The ore uncovered in the shaft occurs in a silty carbonaceous sandstone with some conglomerate. The richest zone is approximately 3 feet thick. From this zone I removed a hand-picked sample which I sent to the Chapman and Wood Laboratory at Albuquerque. Their assay indicates a chemical content of U_3O_8 of .196%. This report is attached as Exhibit "C". Ore is not limited to this zone alone, however, ore occurs throughout the full depth of the shaft, in fact, the very bottom of the shaft seemed to be almost as rich as the part from which the assay came. The occurrence of ore appears to be carnotite. Since it is not readily noticeable in short distance to either side of the outcrop I am presuming that it is a channel type deposit. The location of the ore-bearing stratum in the geologic section seems to be about 250 feet above the base of the Chinle. In the first 100 feet above two very massive coarse conglomerates are found. The formation itself immediately overlies the bentonitic blue shale member of Lower Chinle. Although the U.S.G.S. Geologic Map indicates that the conglomerates above are Shinarump the local U.S.G.S. representatives assure me that this is incorrect and that they are merely conglomerates within the Chinle. The accompanying plat marked "Exhibit "D" is a photostat of the geologic map and on it the ribbonlike outcrop TRS represents the conglomerates which overlie the ore-zone.

My reason for desiring to explore for the ore-bearing formation by the core-drilling method is that I feel that once underground it may follow a devious course as channel deposits frequently do - further I consider it quite possible that other channels may be present inside the limits of the 32 claims under consideration.

(d) These claims are within 20 miles of the town of Holbrook - probably the most important supply point for Northeastern Arizona. Holbrook is a town of approximately 4,000 people located on the mainline of the Santa Fe as well as U. S. Highway Route #66 at a distance of approximately 230 miles West of Albuquerque. To reach the claims from Holbrook one goes 12 miles on the pavement on U. S. Highway #260 toward St. John then left through a pasture gate on a well traveled dirt road in a Northeasterly direction toward the South side of Twin Buttes. It is approximately eight miles from the pavement to the claims. All of this road is in good condition and should remain so with reference to truck and automobile travel with the exception of wet weather. No steep grades or narrow declivitous spots will be found.

(e) Navajo Indians of this area furnish most of the common labor used in this type of work. They may be found in plentiful supply at Holbrook and if transportation is furnished a sufficient number may be had. General supplies and equipment may be had at Holbrook. However, for the more technical phases of mining the closest all around supply points are Albuquerque and Phoenix which are both about equi-distant from the location.

Lease Bonifield
Box 382
Abilene, Texas

Water must be transported and Holbrook itself would probably be the closest practical point to consider as a source. No electric power is locally available so for power purposes it would probably be best to consider power generated by internal combustion engines for the time being.

5. THE EXPLORATION PROJECT

(a) $U_3 O_8$

(b) Exhibit "C" shows the portion of the claims underlain by the ore-bearing zone. It is my purpose to begin the core-drilling near the outcrop on Annette #2 and to attempt by close spacing to follow the course of the ore as it goes beneath the escarpment. Should this particular lode become lost I desire to enlarge the spacing so that the whole group of claims may be covered by the program - I estimate that each core hole for the project will average 150 feet in depth. My plans are that the actual spacing of the exploration holes, shall be worked out on location with the government representative.

(c) The work will start within 60 days and be completed within 6 months from the date of an exploration project contract.

(d) I have had approximately a year's experience uranium prospecting. Previously I have had 20 years experience as a practicing Petroleum Geologist. I am familiar with core-drilling technique as appled to the oil industry having been in charge of numerous core-drilling operations. I plan to have an experienced supervisor in charge who has had previous experience in the field of Uranium Core-drilling.

6. ESTIMATE OF COSTS

I plan to hire a core-drilling firm which will contract the whole operation. That is, one which will agree to build the roads, furnish the water and fuel, drill the holes, coring same; and if ore is found, analyze the cores and also furnish a competent Geological Consultant together with a complete engineering report of the results.

Under this plan I estimate the cost of the project as follows:

Detail Work	
80 holes 150 feet deep @ $1.50 per foot	$18,000.00
Wide Spacing (Approximate corner of each 10 acres)	
80 holes 150 feet deep @ $1.50 per foot	18,000.00
TOTAL	$36,000.00

Lease Bonifield

Lease Bonifield

EXHIBIT 'A'

MINING DEED

STATE OF ARIZONA }
County of Navajo } ss

KNOW ALL MEN BY THESE PRESENTS:

That we, A. C. Pettit and Ray W. Wilkerson, of Holbrook, Arizona, grantors, for good and valuable consideration, receipt of which is hereby acknowledged, by these presents do assign, grant and convey unto Lease Bonifield, of Abilene, Texas, grantee, all right, title and interest that grantors have, hold or claim, or may hereafter acquire, in and to that certain group of thirty-two (32) unpatented mining claims, situated in Section 4, Township 17 North, Range 23 East, G & S R B & M, Navajo County, Arizona, the location notices whereof are of record in the office of the County Recorder of Navajo County, Arizona, by name and book of record as follows:

Name of Claim	Book	Page
Annette #1	65	172
Annette #2	65	173
Annette #3	65	174
Annette #4	65	175
Jock #1	65	176
Jock #2	65	177
Jock #3	65	178
Jock #4	65	179
Jock #5	65	180
Florence #1	65	181
Florence #2	65	182
Florence #3	65	183
Florence #4	65	184
Karen #1	65	185
Karen #2	65	186
Karen #3	65	187
Karen #4	65	188
Karen #5	65	189
Ray #1	62	502
Ray #2	62	503
Ray #3	62	504
Ray #4	62	505
Davis #1	62	497
Davis #2	62	498
Davis #3	62	499
Davis #4	62	500
Davis #5	62	501
Fay #1	62	467
Fay #2	62	468
Fay #3	62	469
Fay #4	62	470
Fay #5	66	330

to which records reference is hereby made for a more complete description of said mining claims.

Lease Bonifield
Box 382
Abilene, Texas

To have and to hold all of the above-described property, and all property herein referred to, together with, all and singular, the rights, equities and appurtenances thereto in any wise belonging, unto the said grantee, his successors and assigns, forever, subject only to the reservations herein contained.

And we, and each of us, do hereby warrant that each of the foregoing mining claims is a valid and subsisting location made under and in compliance with the mineral laws of the United States and the State of Arizona, and that each and all of said claims are free and clear of encumbrances, and that there are no overlapping, conflicting or paramount locations, and we hereby bind ourselves, our heirs and successors, to warrant and defend, all and singular, the above-described premises unto the grantee, his heirs and assigns, against every person whomsoever lawfully claiming or to claim the same, or any part thereof, save and except as to the paramount title of the United States, and subject to the interest of the grantors herein to a royalty payable to A. C. Pettit or his order, of ten per cent. (10%) of the net mill returns from the production of ores, after deduction of haulage and development allowances.

IN WITNESS WHEREOF, the grantors have hereunto subscribed our respective names, this 15th day of April, 1955.

A. C. Pettit

A. C. Pettit

Ray W. Wilkerson

Ray W. Wilkerson

STATE OF ARIZONA }
County of Navajo } ss

The foregoing instrument was acknowledged before me by A. C. Pettit, this 15th day of April, 1955.

Yates Heyward
Notary Public

My commission expires
July 7, 1956

STATE OF ARIZONA }
County of Navajo } ss

The foregoing instrument was acknowledged before me by Ray W. Wilkerson, this 15th day of April, 1955.

Yates Heyward
Notary Public

My commission expires
July 7, 1956

Lease Bonifield
Box 382
Abilene, Texas

Lease Bonifield
Box 382
Abilene, Texas

" C O P Y"

AGREEMENT

THIS AGREEMENT, made and entered into this 15th day of April, 1955, by and between A. C. Pettit and Ray Wilkerson, on the one part, herein referred to as Pettit-Wilkerson, and Lease Bonifield, on the other part, herein referred to as Bonifield,

WITNESSETH:

For and in consideration of the terms, conditions and covenants to be paid, kept and performed by the parties hereto as hereinafter stated:

Pettit-Wilkerson agree to sell, convey and assign to Bonifield and Bonifield agrees to purchase from Pettit-Wilkerson the following thirty-two (32) valid and subsisting unpatented lode mining claims, situated in Section 4, R17N, R23E, the Arizona Mining District, Navajo County, State of Arizona, to-wit:

1. Annette #1, recorded in book 65, page 172
2. Annette #2, recorded in book 65, page 173
3. Annette #3, recorded in book 65, page 174
4. Annette #4, recorded in book 65, page 175
5. Jock #1, recorded in book 65, page 176
6. Jock #2, recorded in book 65, page 177
7. Jock #3, recorded in book 65, page 178
8. Jock #4, recorded in book 65, page 179
9. Jock #5, recorded in book 65, page 180
10. Florence #1, recorded in book 65, page 181
11. Florence #2, recorded in book 65, page 182
12. Florence #3, recorded in book 65, page 183
13. Florence #4, recorded in book 65, page 184
14. Karen #1, recorded in book 65, page 185
15. Karen #2, recorded in book 65, page 186
16. Karen #3, recorded in book 65, page 187
17. Karen #4, recorded in book 65, page 188
18. Karen #5, recorded in book 65, page 189
19. Ray #1, recorded in book 62, page 502
20. Ray #2, recorded in book 62, page 503
21. Ray #3, recorded in book 62, page 504
22. Ray #4, recorded in book 62, page 505

Lease Bonifield
Box 382
Abilene, Texas

23. Davis #1, recorded in book 62, page 497

24. Davis #2, recorded in book 62, page 498

25. Davis #3, recorded in book 62, page 499

26. Davis #4, recorded in book 62, page 500

27. Davis #5, recorded in book 62, page 501

28. Fay #1, recorded in book 62, page 467

29. Fay #2, recorded in book 62, page 468

30. Fay #3, recorded in book 62, page 469

31. Fay #4, recorded in book 62, page 470

32. Fay #5, recorded in book 66, page 330

Pettit-Wilkerson shall furnish, at their own expense, to Bonifield complete abstracts of title certified from beginning to date covering all of the above described claims. Bonifield shall within fourteen (14) days after the date of the delivery of the abstracts to him or his attorney cause said abstracts to be examined and to make search as to the perfection and validity of titles.

Pettit-Wilkerson shall this date make, execute and deliver to Bonifield proper and sufficient instruments of conveyance with full warranty of title conveying to Bonifield full and absolute title in and to the above described claims free and clear of any and all adverse claims, liens and encumbrances, except and subject to a reservation to Pettit-Wilkerson of a royalty of ten percent (10%) of "net mill returns" as paid by the ore buyer. It is expressly understood and agreed between the parties hereto that "net mill returns" shall be defined as the amount of proceeds received by Bonifield from the production or ores, but shall not include any percent of the haulage and development allowances.

Upon the execution of this agreement and the execution and delivery of the aforementioned instruments of conveyance Bonifield shall pay to Pettit-Wilkerson the sum of one thousand six hundred dollars ($1600.00) and this payment shall be made subject to and condition upon the approval of titles by Bonifield. If titles are not acceptable to Bonifield then Pettit-Wilkerson jointly and severally agree to repay to Bonifield the aforementioned sum of one thousand six hundred dollars ($1600.00) within sixty (60) days from April 29, 1955 and Bonifield shall upon the payment to him by Pettit-Wilkerson of said one thousand six hundred dollars ($1600.00) shall reconvey to Pettit-Wilkerson the above described claims and this agreement shall be null and void and be of no further force and effect.

Lease Bonifield
Box 382
Abilene, Texas

If titles are acceptable to Bonifield then Bonifield shall pay to Pettit-Wilkerson the additional sum of four thousand nine hundred dollars ($4900.00), and this sum shall be in addition to the one thousand six hundred dollars ($1600.00) consideration heretofore recited, on or before April 29, 1955.

Bonifield shall have exploratory work performed upon the claims in such amount and in such manner as he shall in his sole discretion deem desirable or advisable, but in all events said work shall be commenced within sixty (60) days from April 29, 1955 and said work shall be completed not later than eighteen (18) months from April 29, 1955.

If said work is not commenced within the specified sixty (60) day period, this agreement shall terminate and Bonifield shall therewith reassign the claims to Pettit-Wilkerson, and Pettit-Wilkerson shall retain the Six Thousand Five Hundred Dollars ($6,500.00) as their own and no further rights or obligations shall exist in favor of or be owing to either party under this agreement.

Bonifield shall have the absolute right at any time during a period of eighteen (18) months from the date of the delivery of the assignments to him to elect and determine which of said claims he will retain as his own. For those claims Bonifield elects to retain, Bonifield shall pay to Pettit-Wilkerson the additional sum of Three Thousand Dollars ($3000.00) for each claim retained by Bonifield, and this sum shall be in addition of the Six Thousand Five Hundred Dollars ($6500.00) consideration heretofore recited and upon such payment by Bonifield to Pettit-Wilkerson, Bonifield will be vested with full and absolute title in and to such claims retained by Bonifield, free and clear of any and all adverse claims, liens and encumbrances, except that said claims will be subject to the reservation to Pettit-Wilkerson of the royalty of ten percent (10%) of ore produced, as defined and described above.

Bonifield agrees to perform or cause to be performed the annual assessment work re-quired for the retention of said mining claims and to make and file an affidavit thereon as required by law.

All of the area within the exterior boundaries of above described group claims shall be subject to and be included under this Agreement.

Pettit-Wilkerson agree to protect and indemnify Bonifield against any and all claims for commission arising from this deal that may be asserted by other parties.

Bonifield shall permit and allows Pettit-Wilkerson to have access to all samples,

Lease Bonifield
Box 382
Abilene, Texas

cores, electric logs and chemical assays reports, at any and all times.

THIS AGREEMENT shall be binding upon the heirs and assigns of the parties hereto.

THIS AGREEMENT was executed and delivered in duplicate the day and year first above written.

S/ A. C. Pettit

S/ Ray Wilkerson

S/ Lease Bonifield

STATE OF ARIZONA }
ss
COUNTY OF NAVAJO }

BE IT REMEMBERED, That on this 15th day of April, 1955 before me a Notary Public in and for said County and State, personally appeared A. C. Pettit and Ray Wilkerson, to me known to be the identical persons described in and who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my official signature and affixed my notarial seal the day and year first above written.

My Commission Expires July 7, 1956

S/Yates Heywood
Notary Public

STATE OF ARIZONA }
ss
COUNTY OF NAVAJO }

BE IT REMEMBERED, That on this 15th day of April, A. D. 1955 before me, a Notary Public, in and for said County and State, personally appeared Lease Bonifield, to me known to be the identical person described in and who executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

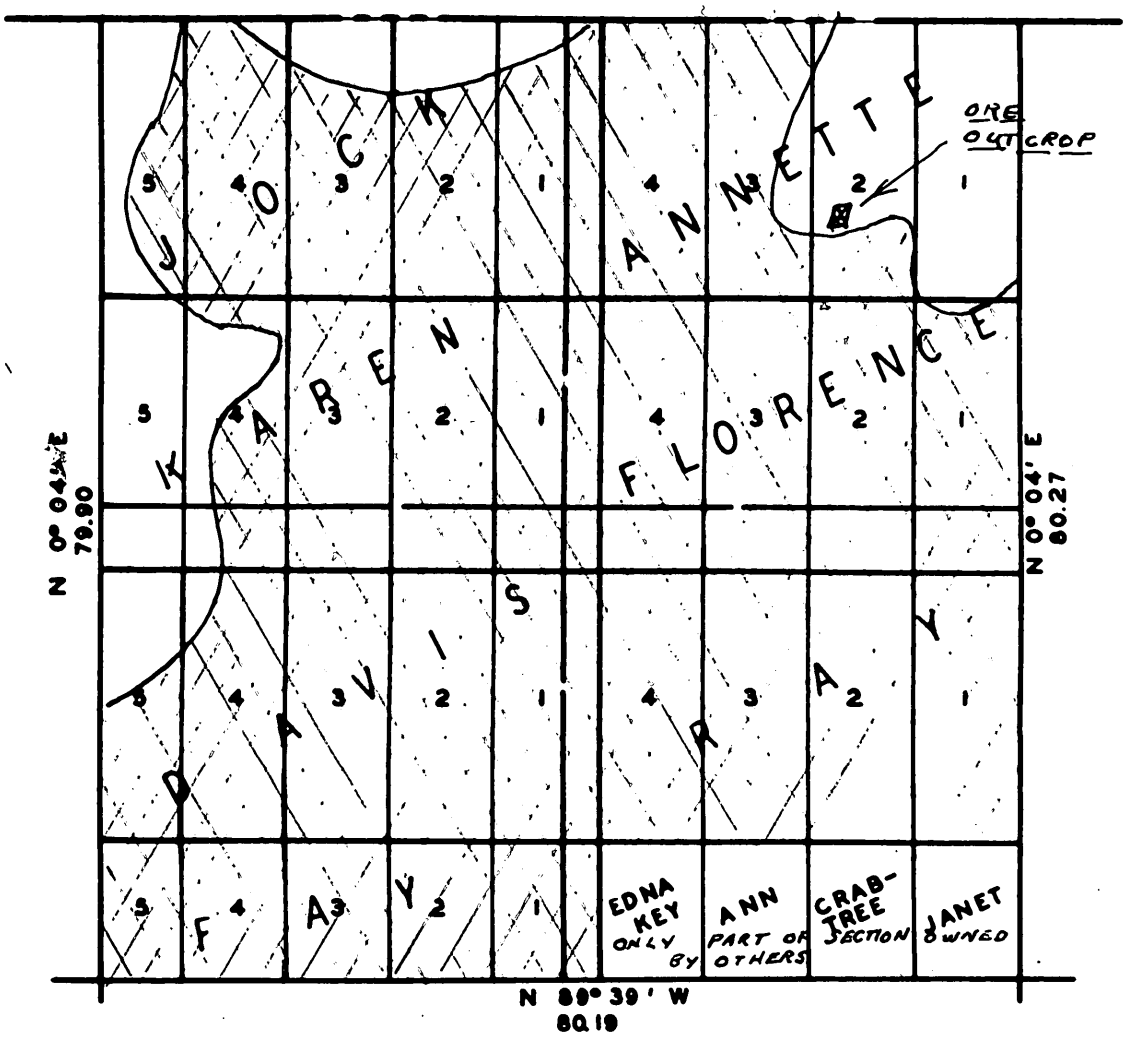
IN WITNESS WHEREOF, I have hereunto set my official signature and affixed my notarial seal the day and year first above written.

S/ Yates Heywood
Notary Public

My Commission Expires July 7, 1956

EXHIBIT 'B'

Sec. 4 T17N R23E



MINING CLAIMS,
Situated in Navajo Co. Arizona.

Section surveyed by _____
Oct. 1954
SCALE 1" - 1000'

Area underlain by zone carrying ore.

Lane Bonifield
Box 382
Abilene, Texas

RECEIVED
JUN - 9 1955

EXHIBIT 'C'

CHAPMAN AND WOOD
MINING ENGINEERS AND GEOLOGISTS
536 JEFFERSON ST., NE
PHONE 6-1675 P. O. BOX 8302
ALBUQUERQUE, NEW MEXICO

LABORATORY DIVISION ASSAY CERTIFICATE

No. 160

Date 1/28/55

Submitted by Lease Bonifield

Address P. O. Box 382, Abilene, Texas

DESCRIPTION OF SAMPLE	e U_3O_8	chem. U_3O_8					TON VALUE
Holbrook No. 1	.30	.198					

Chemist D. H. Reynolds
D. H. Reynolds

Charges $15.30

RECEIVED
JUN - 9 1955

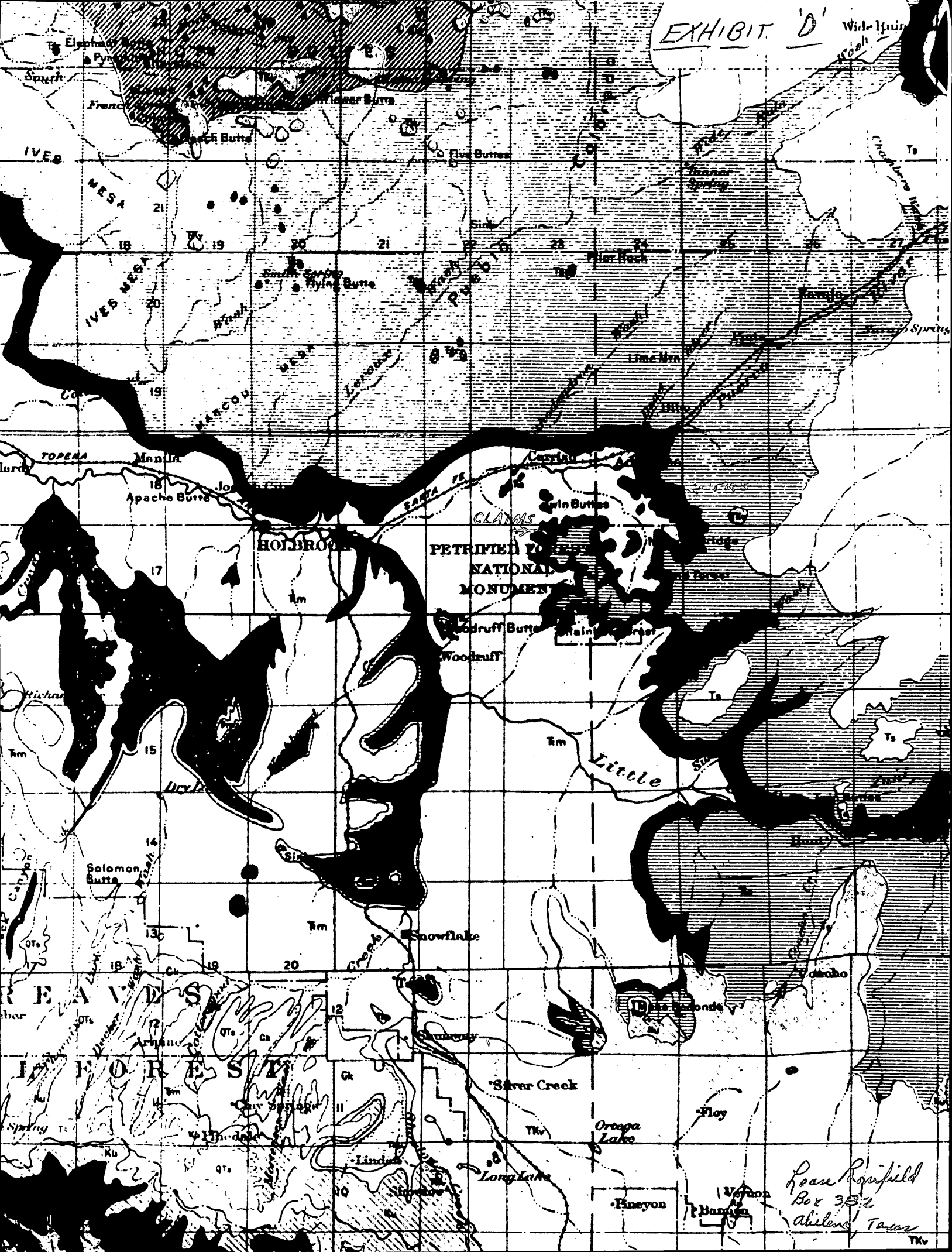


EXHIBIT 'D'
Wide Spring
Wash
Elephant Butte
Pyramid Butte
South
Sunflower Butte
Five Buttes
IVES MESA
Tanner Spring
Pilot Rock
South Spring
Flying Butte
Wash
Lime Kiln
Hills
TOPEKA
Manila
Apache Butte
SANTA FE
Twin Buttes
CLAIMS
HOLBROOK
PETRIFIED FOREST
NATIONAL
MONUMENT
Woodruff Butte
Woodruff
Little
Solomon Butte
Snowflake
Sanmery
Silver Creek
Floy
Oraqa Lake
Lindon
Long Lake
Pineyon
Vernon
Bonita
Rose Rosfield
Box 382
Abilene, Texas

RECEIVED
JUN - 9 1955

10/20/55 gla

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

October 13, 1955

80h New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, DMEA Docket 3851 (Uranium), Lease Bonifield, El Rico Property, Navajo County, Arizona

Enclosed are the original and three copies of the report pertaining to the above application which consists of the following:

a. Joint Summary, Conclusions and Recommendations by D. D. Haynes, U. S. Geological Survey, and M. E. Howes, U. S. Bureau of Mines

b. Engineering Report by M. E. Howes

c. Geologic Report by D. D. Haynes

d. Memoranda of transmittal and comment by E. N. Harshman, J. William Hasler, and Stephen R. Wilson

The examining team believes that there is little chance for the discovery of significant reserves of uranium by means of the proposed exploration, and they therefore recommend that the application be denied.

We concur with this recommendation.

W. M. Trever

By J. W. Townsend
J. W. Townsend

10-24-55

E. N. Harshman
E. N. Harshman

Enc

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

RECEIVED
OCT 19 1955

October 13, 1955

22A New Customhouse
Denver 2, Colorado

Mr. L. Cohen
502 National Bank and Commerce Building
Tulsa, Oklahoma

Re: Docket DMEA 3851 (Uranium), Lease Bonifield, El Rico Property, Navajo County, Arizona

Dear Mr. Cohen:

This is to inform you that the Examination Report of the Lease Bonifield Application was transmitted to the Secretary to the Operating Committee, Defense Minerals Exploration Administration on this date.

Very truly yours,

W. M. Traver

By J. W. Townsend
J. W. Townsend

JC:ab
cc: Sec. Op. Comm. (2)
Docket DMEA 3851
Chron.

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

RECEIVED
JUL - 5 1955

224 New Customhouse
Denver 2, Colorado

June 28, 1955

Memorandum

To: S. R. Wilson (w/brochure)
J. W. Hasler

From: Field Team, Region III

Subject: Docket DMEA-3091 (Uranium), Lease Bonifield, El Rico Property, Navajo County, Arizona

Enclosed is the subject application in the amount of $30,000.00.

The brochure consists of:

1. A letter from the applicant.
2. Form MF-103 and accompanying answering sheets.
3. Exhibit "A", Mining Deed.
4. Copy of an agreement, dated April 19, 1955.
5. Exhibit "B", Map of mining claims.
6. Exhibit "C", Copy of assay certificate.
7. Exhibit "D", Map showing location of the applicant's claims.

A field examination and suitable report are requested. Your attention is invited to the copy of the letter from the Chairman of the Operating Committee and attached memorandum from John Crawford and R. D. Trace.

W. M. TRAVER

W. M. Traver

Enclosures

HMC:pw

cc: Sec.Op.Comm. (2)
Storms
Harshman
Subject Chron

E. N. Harshman

E. N. Harshman
DMEA Field Team, Region III

6/28/55 gla

LIONEL E. Z. COHEN
ATTORNEY AT LAW
502 NATIONAL BANK OF COMMERCE BUILDING
TULSA, OKLAHOMA

June 25, 1955

RECEIVED
JUN 27 1955

Mr. Robert E. Adams
Chief Operations Control and Statistics Division
Rare and Miscallenous Minerals Division
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. 3851.

Dear Sir:

I am writing to you on behalf of Mr. Lease Bonifield, of Abilene, Texas, who has requested DMEA assistance on his uranium claims in Navajo County, Arizona. All necessary papers were forwarded to your office this month and the above Docket Number has been assigned to his project.

I have handled all legal matters for Mr. Bonifield on the purchase of these claims from the original owners, and also perfected the titles on these claims. Mr. Bonifield in the purchase of these claims agreed to commence exploratory work thereon within sixty (60) days. There is now approximately forty (40) days left in which to accomplish the work. For this reason Iam requesting that the above Docket Number be processed at the earliest possible time so that Mr. Bonifield may proceed with his proposed work.

I would appreciate it very much if you will reply immediately advising when we may expect action on this matter.

Very truly yours,

Lionel Cohen

Lionel Cohen
LC:vb

Surname 700

Murphy
Ellis
Kulogaard
Hedges
Selridge
Johnson

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

JUN 23 1955

Mr. Lease Bonifield
Box 382
Abilene, Texas

Re: Docket No. DMEA-3851 (Uranium)
El Rico Property
Navajo County, Arizona

Dear Mr. Bonifield:

The application for assistance in exploring your property in Navajo County, Arizona, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region III at the following address:

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf

Administrator

FMurphy:am
6-20-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

R.C.S.

Surname 700
Murphy
Ellis
Johnson

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

Mr. W. K. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

JUN 23 1955

Re: Docket No. DMEA-3851 (Uranium)
Lease Bonifield
El Rico Property
Navajo County, Arizona

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination, and recommendation. A copy of the application was forwarded to your office on June 9, 1955.

Enclosed are copies of memoranda from Mr. J. E. Crawford, dated June 13, and Mr. K. D. Grace, dated June 16, 1955, members of the Uranium Commodity Committee.

In the event the Field Team believes a project to explore the above-named property is warranted, will you kindly advise the Applicant that we will require six (6) executed copies of an Owner's Consent to Lien, signed by A. C. Pettit and Ray W. Wilkerson, present owners of the leased claims.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FMMurphy:am
6-20-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J.E.Crawford, Rm.3641
T.H.Kiilsgaard, Rm.5224
J.O.Hosted, Rm.3210, GSA
Code 700
Mr. Murphy

R.C.G.

IN REPLY REFER TO:

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

RECEIVED
JUN 17 1955

June 16, 1955

Re: DMEA-3851
Lease Bonifield
El Rico Property
Holbrook Area
Navajo Co., Ariz.
$36,000 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The applicant proposes to drill 80 holes, averaging 150 feet in depth, totalling 12,000 feet, to explore for bedded uranium deposits in the lower Chinle. The operator has uncovered one occurrence of mineralization, a hand picked sample of which assayed 0.198% U_3O_8.

Other than knowing that some uranium deposits occur just to the east, I have no information on the area.

Refer to Field Team.

RDTrace

R. D. Trace

IN REPLY REFER TO:

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

RECEIVED
JUN 17 1955

June 16, 1955

Re: DMEA-3851
Lease Bonifield
Xl Mac Property
Kaibeck Area
Navajo Co., Ariz.
$3L,000 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The applicant proposes to drill 80 holes, averaging 150 feet in depth, totalling 12,000 feet, to explore for bedded uranium deposits in the lower Chinle. The operator has uncovered one occurrence of mineralization, a hand picked sample of which assayed 0.198% U_3O_8.

Other than knowing that some uranium deposits occur just to the east, I have no information on the area.

Refer to Field Team.

R. D. Trace

RDTrace:hlm
G-6/16/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. K. Crawford, 3641 Interior
J. O. Hosted, 3210 GSA

6/15/55 gla

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

RECEIVED
JUN 14 1955

June 13, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA 3851, El Rico claims, Navajo County, Arizona

I have reviewed the attached application for assistance, El Rico Claims, DMEA Docket 3851, Navajo County, Arizona; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the application be referred to the Field Team for examination and report, and that the Field Team be requested to consult with Ernest R. Gordon, Atomic Energy Commission, Grand Junction, Colorado.

John E. Crawford

John E. Crawford

Attachment

Lease Bonifield
Box 382
Abilene, Texas

June 9, 1955
Subject: DMEA-3851
Re: Exploration Assistance
El Rico

Dear Mr. Bonifield:

The receipt of your application dated May 30, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3851 and referred to the Rare & Misc. Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

May 30, 1955

RECEIVED
JUN - 9 1955

Re: Projected Core-Drilling
32 Claims in Section 4-17N-23E,
Navajo County, Arizona

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

Gentlemen:

I am enclosing Application for Aid in an exploration project pursuant to DMEA Order--1 Amended under the Defense Production Act of 1950, as amended. In this application I found that the Form MF103 had insufficient space on which to place the information so I attached the explanation to this form. Further, I included Exhibits which would more clearly explain the situation relative to this application.

Titles to all 32 claims have been checked and approved. I am now ready to begin operations. Time is very important to me and should you be in a position to expedite this matter I would greatly appreciate it.

Yours respectfully,

Lease Bonifield

Lease Bonifield
Box 382
Abilene, Texas

LB:ih

Encl.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN - 9 1955

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. 3851
Metal or Mineral Uranium
Date Received 6-9-55
Estimated Cost $36,000
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: Lease Bonifield
Box 382
Abilene, Texas

(*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 32 claims located in Section 4-17N-23E, Navajo County, Arizona, including all the Section but 4 small claims in the South Part of SE 1/4

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

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

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

(*e*) If you own the land, describe any liens or encumbrances on it
Please refer to Exhibit "A"

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

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. (attached explanation)

(*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.

(Explanation attached)

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore U_3O_8

(*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 60 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] 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 May 30, 1955

Lease Bonifield (Applicant)

By

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

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

Lease Bonifield
Box 382
Abilene, Texas

RECEIVED
JUN - 9 1955

PHYSICAL DESCRIPTION

(a) There is one outcrop of ore on the claims under consideration and is located on Annette #2 Claim in the Northeast part of Section #4 - its position may be noted on the plat attached as Exhibit "B". At the site I have excavated a shaft 4'x6'x8 which penetrates the ore-bearing formation. This shaft is readily accessible by auto and may be thoroughly examined with little effort.

(b) The only ore removed is that which has been taken from the previously mentioned shaft.

(c) The ore uncovered in the shaft occurs in a silty carbonaceous sandstone with some conglomerate. The richest zone is approximately 3 feet thick. From this zone I removed a hand-picked sample which I sent to the Chapman and Wood Laboratory at Albuquerque. Their assay indicates a chemical content of U_3O_8 of .198%. This report is attached as Exhibit "C". Ore is not limited to this zone alone, however, ore occurs throughout the full depth of the shaft, in fact, the very bottom of the shaft seemed to be almost as rich as the part from which the assay came. The occurrence of ore appears to be carnotite. Since it is not readily noticeable in short distance to either side of the outcrop I am presuming that it is a channel type deposit. The location of the ore-bearing stratum in the geologic section seems to be about 250 feet above the base of the Chinle. In the first 100 feet above two very massive coarse conglomerates are found. The formation itself immediately overlies the bentonitic blue shale member of Lower Chinle. Although the U.S.G.S. Geologic Map indicates that the conglomerates above are Shinarump the local U.S.G.S. representatives assure me that this is incorrect and that they are merely conglomerates within the Chinle. The accompanying plat marked "Exhibit "D" is a photostat of the geologic map and on it the ribbonlike outcrop TRS represents the conglomerates which overlie the ore-zone.

My reason for desiring to explore for the ore-bearing formation by the core-drilling method is that I feel that once underground it may follow a devious course as channel deposits frequently do - further I consider it quite possible that other channels may be present inside the limits of the 32 claims under consideration.

(d) These claims are within 20 miles of the town of Holbrook - probably the most important supply point for Northeastern Arizona. Holbrook is a town of approximately 4,000 people located on the mainline of the Santa Fe as well as U. S. Highway Route #66 at a distance of approximately 230 miles West of Albuquerque. To reach the claims from Holbrook one goes 12 miles on the pavement on U. S. Highway #260 toward St. John then left through a pasture gate on a well traveled dirt road in a Northeasterly direction toward the South side of Twin Buttes. It is approximately eight miles from the pavement to the claims. All of this road is in good condition and should remain so with reference to truck and automobile travel with the exception of wet weather. No steep grades or narrow declivitous spots will be found.

(e) Navajo Indians of this area furnish most of the common labor used in this type of work. They may be found in plentiful supply at Holbrook and if transportation is furnished a sufficient number may be had. General supplies and equipment may be had at Holbrook. However, for the more technical phases of mining the closest all around supply points are Albuquerque and Phoenix which are both about equi-distant from the location.

Lease Bonifield
Box 382
Abilene, Texas

Water must be transported and Holbrook itself would probably be the closest practical point to consider as a source. No electric power is locally available so for power purposes it would probably be best to consider power generated by internal combustion engines for the time being.

5. THE EXPLORATION PROJECT

(a) U_3O_8

(b) Exhibit "C" shows the portion of the claims underlain by the ore-bearing zone. It is my purpose to begin the core-drilling near the outcrop on Annette #2 and to attempt by close spacing to follow the course of the ore as it goes beneath the escarpment. Should this particular lode become lost I desire to enlarge the spacing so that the whole group of claims may be covered by the program - I estimate that each core hole for the project will average 150 feet in depth. My plans are that the actual spacing of the exploration holes, shall be worked out on location with the government representative.

(c) The work will start within 60 days and be completed within 6 months from the date of an exploration project contract.

(d) I have had approximately a year's experience uranium prospecting. Previously I have had 20 years experience as a practicing Petroleum Geologist. I am familiar with core-drilling technique as appled to the oil industry having been in charge of numerous core-drilling operations. I plan to have an experienced supervisor in charge who has had previous experience in the field of Uranium Core-drilling.

6. ESTIMATE OF COSTS

I plan to hire a core-drilling firm which will contract the whole operation. That is, one which will agree to build the roads, furnish the water and fuel, drill the holes, coring same; and if ore is found, analyze the cores and also furnish a competent Geological Consultant together with a complete engineering report of the results.

Under this plan I estimate the cost of the project as follows:

Detail Work	
80 holes 150 feet deep @ $1.50 per foot	$18,000.00
Wide Spacing (Approximate corner of each 10 acres)	
80 holes 150 feet deep @ $1.50 per foot	18,000.00
TOTAL	$36,000.00

Lease Bonifield

RECEIVED
JUN - 9 1956

EXHIBIT 'A'

MINING DEED

STATE OF ARIZONA }
County of Navajo } ss

KNOW ALL MEN BY THESE PRESENTS:

That we, A. C. Pettit and Ray W. Wilkerson, of Holbrook, Arizona, grantors, for good and valuable consideration, receipt of which is hereby acknowledged, by these presents do assign, grant and convey unto Lease Bonifield, of Abilene, Texas, grantee, all right, title and interest that grantors have, hold or claim, or may hereafter acquire, in and to that certain group of thirty-two (32) unpatented mining claims, situated in Section 4, Township 17 North, Range 23 East, G & S R B & M, Navajo County, Arizona, the location notices whereof are of record in the office of the County Recorder of Navajo County, Arizona, by name and book of record as follows:

Name of Claim	Book	Page
Annette #1	65	172
Annette #2	65	173
Annette #3	65	174
Annette #4	65	175
Jock #1	65	176
Jock #2	65	177
Jock #3	65	178
Jock #4	65	179
Jock #5	65	180
Florence #1	65	181
Florence #2	65	182
Florence #3	65	183
Florence #4	65	184
Karen #1	65	185
Karen #2	65	186
Karen #3	65	187
Karen #4	65	188
Karen #5	65	189
Ray #1	62	502
Ray #2	62	503
Ray #3	62	504
Ray #4	62	505
Davis #1	62	497
Davis #2	62	498
Davis #3	62	499
Davis #4	62	500
Davis #5	62	501
Fay #1	62	467
Fay #2	62	468
Fay #3	62	469
Fay #4	62	470
Fay #5	66	330

to which records reference is hereby made for a more complete description of said mining claims.

Lease Bonifield
Box 382
Abilene, Texas

To have and to hold all of the above-described property, and all property herein referred to, together with, all and singular, the rights, equities and appurtenances thereto in any wise belonging, unto the said grantee, his successors and assigns, forever, subject only to the reservations herein contained.

And we, and each of us, do hereby warrant that each of the foregoing mining claims is a valid and subsisting location made under and in compliance with the mineral laws of the United States and the State of Arizona, and that each and all of said claims are free and clear of encumbrances, and that there are no overlapping, conflicting or paramount locations, and we hereby bind ourselves, our heirs and successors, to warrant and defend, all and singular, the above-described premises unto the grantee, his heirs and assigns, against every person whomsoever lawfully claiming or to claim the same, or any part thereof, save and except as to the paramount title of the United States, and subject to the interest of the grantors herein to a royalty payable to A. C. Pettit or his order, of ten per cent. (10%) of the net mill returns from the production of ores, after deduction of haulage and development allowances.

IN WITNESS WHEREOF, the grantors have hereunto subscribed our respective names, this 15th day of April, 1955.

A. C. Pettit

A. C. Pettit

Ray W. Wilkerson

Ray W. Wilkerson

STATE OF ARIZONA }
County of Navajo } ss

The foregoing instrument was acknowledged before me by A. C. Pettit, this 15th day of April, 1955.

Yeta Heywood
Notary Public

My commission expires
July 7, 1956

STATE OF ARIZONA }
County of Navajo } ss

The foregoing instrument was acknowledged before me by Ray W. Wilkerson, this 15th day of April, 1955.

Yeta Heywood
Notary Public

My commission expires
July 7, 1956

Loose Bonifield
Box 382
Abilene, Texas

Lease Bonifield
Box 382
Abilene, Texas

" C O P Y"

AGREEMENT

THIS AGREEMENT, made and entered into this 15th day of April, 1955, by and between A. C. Pettit and Ray Wilkerson, on the one part, herein referred to as Pettit-Wilkerson, and Lease Bonifield, on the other part, herein referred to as Bonifield,

WITNESSETH:

For and in consideration of the terms, conditions and covenants to be paid, kept and performed by the parties hereto as hereinafter stated:

Pettit-Wilkerson agree to sell, convey and assign to Bonifield and Bonifield agrees to purchase from Pettit-Wilkerson the following thirty-two (32) valid and subsisting unpatented lode mining claims, situated in Section 4, R17N, R23E, the Arizona Mining District, Navajo County, State of Arizona, to-wit:

1. Annette #1, recorded in book 65, page 172
2. Annette #2, recorded in book 65, page 173
3. Annette #3, recorded in book 65, page 174
4. Annette #4, recorded in book 65, page 175
5. Jock #1, recorded in book 65, page 176
6. Jock #2, recorded in book 65, page 177
7. Jock #3, recorded in book 65, page 178
8. Jock #4, recorded in book 65, page 179
9. Jock #5, recorded in book 65, page 180
10. Florence #1, recorded in book 65, page 181
11. Florence #2, recorded in book 65, page 182
12. Florence #3, recorded in book 65, page 183
13. Florence #4, recorded in book 65, page 184
14. Karen #1, recorded in book 65, page 185
15. Karen #2, recorded in book 65, page 186
16. Karen #3, recorded in book 65, page 187
17. Karen #4, recorded in book 65, page 188
18. Karen #5, recorded in book 65, page 189
19. Ray #1, recorded in book 62, page 502
20. Ray #2, recorded in book 62, page 503
21. Ray #3, recorded in book 62, page 504
22. Ray #4, recorded in book 62, page 505

Lease Bonifield
Box 382
Abilene, Texas

23. Davis #1, recorded in book 62, page 497

24. Davis #2, recorded in book 62, page 498

25. Davis #3, recorded in book 62, page 499

26. Davis #4, recorded in book 62, page 500

27. Davis #5, recorded in book 62, page 501

28. Fay #1, recorded in book 62, page 467

29. Fay #2, recorded in book 62, page 468

30. Fay #3, recorded in book 62, page 469

31. Fay #4, recorded in book 62, page 470

32. Fay #5, recorded in book 66, page 330

Pettit-Wilkerson shall furnish, at their own expense, to Bonifield complete abstracts of title certified from beginning to date covering all of the above described claims. Bonifield shall within fourteen (14) days after the date of the delivery of the abstracts to him or his attorney cause said abstracts to be examined and to make search as to the perfection and validity of titles.

Pettit-Wilkerson shall this date make, execute and deliver to Bonifield proper and sufficient instruments of conveyance with full warranty of title conveying to Bonifield full and absolute title in and to the above described claims free and clear of any and all adverse claims, liens and encumbrances, except and subject to a reservation to Pettit-Wilkerson of a royalty of ten percent (10%) of "net mill returns" as paid by the ore buyer. It is expressly understood and agreed between the parties hereto that "net mill returns" shall be defined as the amount of proceeds received by Bonifield from the production or ores, but shall not include any percent of the haulage and development allowances.

Upon the execution of this agreement and the execution and delivery of the aforementioned instruments of conveyance Bonifield shall pay to Pettit-Wilkerson the sum of one thousand six hundred dollars ($1600.00) and this payment shall be made subject to and condition upon the approval of titles by Bonifield. If titles are not acceptable to Bonifield then Pettit-Wilkerson jointly and severally agree to repay to Bonifield the aforementioned sum of one thousand six hundred dollars ($1600.00) within sixty (60) days from April 29, 1955 and Bonifield shall upon the payment to him by Pettit-Wilkerson of said one thousand six hundred dollars ($1600.00) shall reconvey to Pettit-Wilkerson the above described claims and this agreement shall be null and void and be of no further force and effect.

Lease Bonifield
Box 382
Abilene, Texas

If titles are acceptable to Bonifield then Bonifield shall pay to Pettit-Wilkerson the additional sum of four thousand nine hundred dollars ($4900.00), and this sum shall be in addition to the one thousand six hundred dollars ($1600.00) consideration heretofore recited, on or before April 29, 1955.

Bonifield shall have exploratory work performed upon the claims in such amount and in such manner as he shall in his sole discretion deem desirable or advisable, but in all events said work shall be commenced within sixty (60) days from April 29, 1955 and said work shall be completed not later than eighteen (18) months from April 29, 1955.

If said work is not commenced within the specified sixty (60) day period, this agreement shall terminate and Bonifield shall therewith reassign the claims to Pettit-Wilkerson, and Pettit-Wilkerson shall retain the Six Thousand Five Hundred Dollars ($6,500.00) as their own and no further rights or obligations shall exist in favor of or be owing to either party under this agreement.

Bonifield shall have the absolute right at any time during a period of eighteen (18) months from the date of the delivery of the assignments to him to elect and determine which of said claims he will retain as his own. For those claims Bonifield elects to retain, Bonifield shall pay to Pettit-Wilkerson the additional sum of Three Thousand Dollars ($3000.00) for each claim retained by Bonifield, and this sum shall be in addition of the Six Thousand Five Hundred Dollars ($6500.00) consideration heretofore recited and upon such payment by Bonifield to Pettit-Wilkerson, Bonifield will be vested with full and absolute title in and to such claims retained by Bonifield, free and clear of any and all adverse claims, liens and encumbrances, except that said claims will be subject to the reservation to Pettit-Wilkerson of the royalty of ten percent (10%) of ore produced, as defined and described above.

Bonifield agrees to perform or cause to be performed the annual assessment work re-quired for the retention of said mining claims and to make and file an affidavit thereon as required by law.

All of the area within the exterior boundaries of above described group claims shall be subject to and be included under this Agreement.

Pettit-Wilkerson agree to protect and indemnify Bonifield against any and all claims for commission arising from this deal that may be asserted by other parties.

Bonifield shall permit and allows Pettit-Wilkerson to have access to all samples,

Lease Bonifield
Box 382
Abilene, Texas

cores, electric logs and chemical assays reports, at any and all times.

THIS AGREEMENT shall be binding upon the heirs and assigns of the parties hereto.

THIS AGREEMENT was executed and delivered in duplicate the day and year first above written.

S/ A. C. Pettit

S/ Ray Wilkerson

S/ Lease Bonifield

STATE OF ARIZONA)
ss
COUNTY OF NAVAJO)

BE IT REMEMBERED, That on this 15th day of April, 1955 before me a Notary Public in and for said County and State, personally appeared A. C. Pettit and Ray Wilkerson, to me known to be the identical persons described in and who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my official signature and affixed my notarial seal the day and year first above written.

My Commission Expires July 7, 1956

S/Yates Heywood
Notary Public

STATE OF ARIZONA)
ss
COUNTY OF NAVAJO)

BE IT REMEMBERED, That on this 15th day of April, A. D. 1955 before me, a Notary Public, in and for said County and State, personally appeared Lease Bonifield, to me known to be the identical person described in and who executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my official signature and affixed my notarial seal the day and year first above written.

S/ Yates Heywood
Notary Public

My Commission Expires July 7, 1956

EXHIBIT 'C'

CHAPMAN AND WOOD
MINING ENGINEERS AND GEOLOGISTS
536 JEFFERSON ST., NE
PHONE 6-1675 P. O. BOX 8302
ALBUQUERQUE, NEW MEXICO

LABORATORY DIVISION ASSAY CERTIFICATE

No. 160

Date 1/28/55

Submitted by Lease Bonifield

Address P. O. Box 382, Abilene, Texas

DESCRIPTION OF SAMPLE	e U_3O_8	chem. U_3O_8					TON VALUE
Holbrook No. 1	.30	.198					

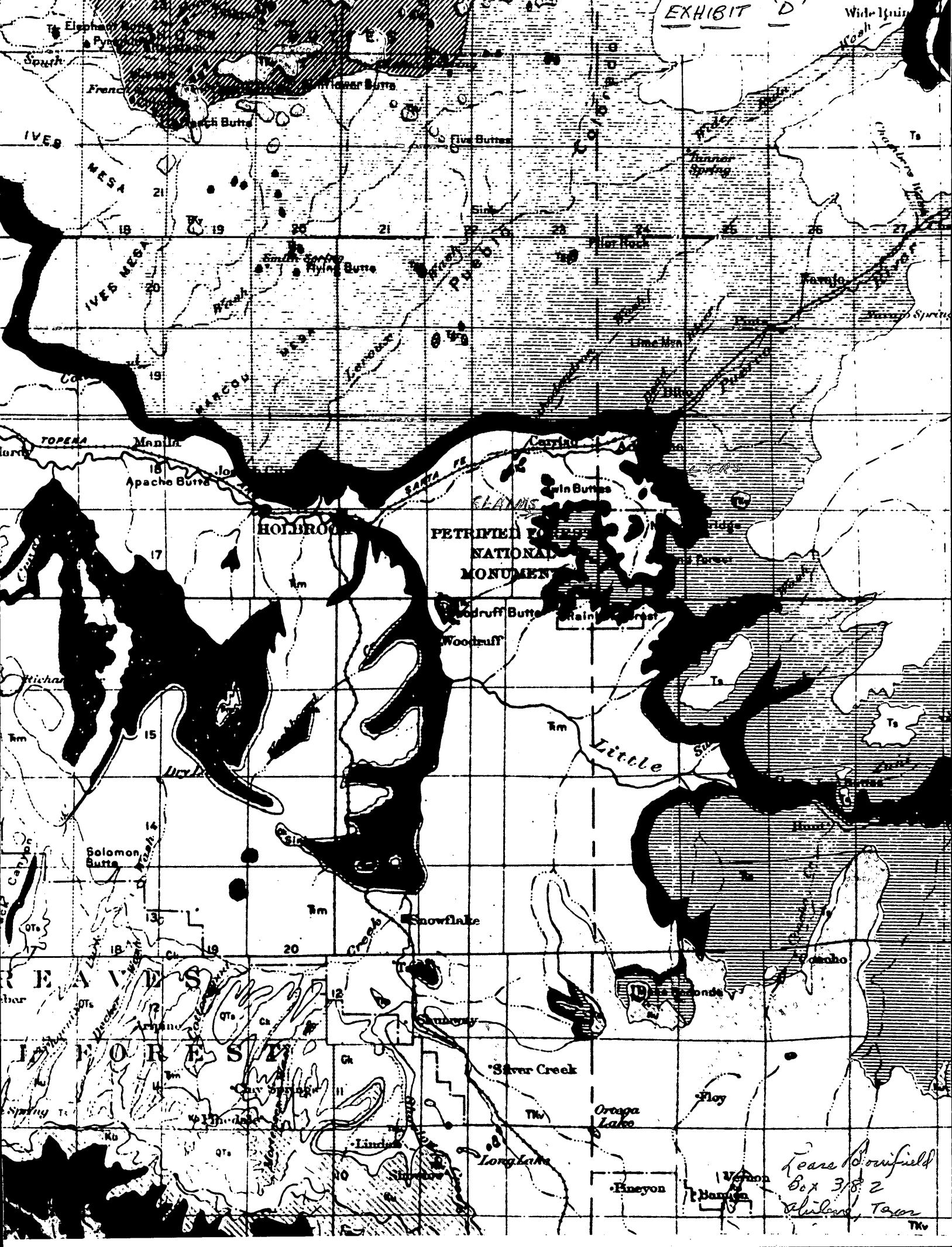
Chemist D. H. Reynolds
D. H. Reynolds

Charges $15.30

Lease Bonifield
Box 382
Abilene, Texas

RECEIVED
JUN - 9 1955

EXHIBIT D

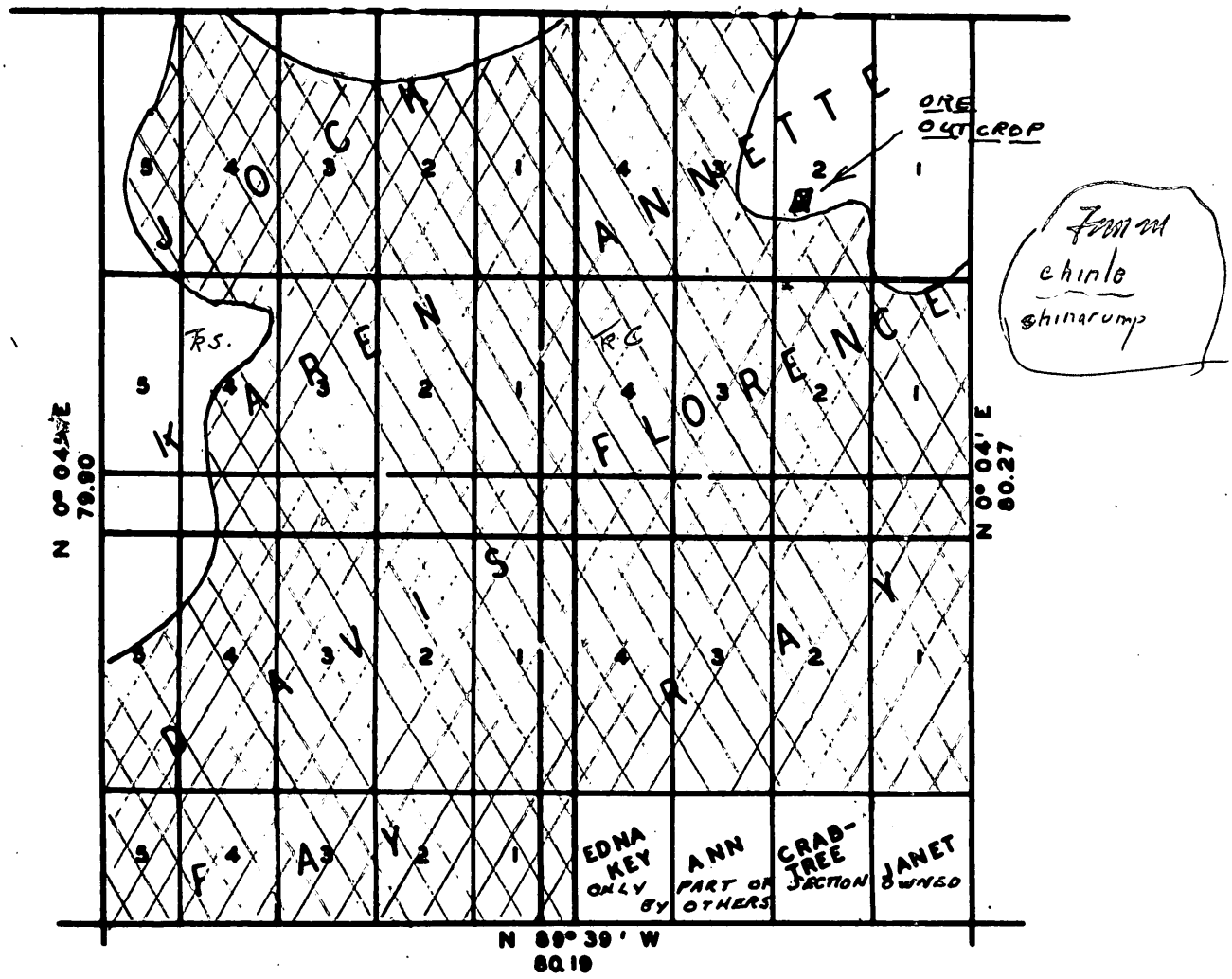

Elephant Rock
Pyramid Butte
South
French
Chalcedony Butte
Five Butes
IVES MESA
Tanner Spring
Sink
Pilot Rock
Smith Spring
Flying Butte
Wash
Navajo
Navajo Spring
Lime Man
Dilco
TOPEKA
Manila
Apache Butte
SANTA FE
Carrizo
Twin Butes
CLAYS
HOLBROOK
PETRIFIED FOREST
NATIONAL
MONUMENT
Woodruff Butte
Woodruff
Little
Solomon Butte
Snowflake
Taylor
Shumway
Silver Creek
Floy
Orcaga Lake
Lindon
Long Lake
Pineyon
Vernon
Bannon
Lease Bonifield
Box 3182
Abilene, Texas

RECEIVED
JUN - 9 1995

Pin (red 46)

Sec. 4 T17N R23E

EXHIBIT 'B'



MINING CLAIMS.
Situated in Navajo Co. Arizona.

Section surveyed by _____
Oct. 1954
SCALE 1"-1000'

Area underlain by zone carrying ore.

Leare Bonfield
Box 382
Abilene, Texas

RECEIVED
JUN - 9 1998