DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3608

DO NOT DETACH THIS SLIP

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

This document has been recorded as

Exploration Assistance

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

Cys to USBM & USGS

Routing Slip

To:	700	Date	12/21/54
To:	Gen Com	Date	1-14-55
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DO NOT DETACH

CONTROLLED DOCUMENT

700

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

Ellis
Kiilsgaard
Hedges
Selfridge
Henderson

JAN 14 1955

Mr. H. L. Burtner, Jr.
President, Burtner's, Inc.
1328 S. Florence
Springfield, Missouri

Re: Docket No. DMEA-3608 (Uranium)
163 acres in Secs. 21 and 28,
T. 21 N., R. 27 W., 5th P.M.
Barry County, Missouri

Dear Mr. Burtner:

Your application for aid in an exploration project and other information available to us in Washington concerning your above-described property have been reviewed.

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

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

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

EWEllis/gla
(1/12/55)
1/14/55

cc to: Admr.'s Reading File
Operating Committee
Docket ✓
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, OSA

Code 700 denial file
DMEA Field Team, Region IV (2)

R.C.S.

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

January 12, 1955

Summary of Proposed Project

Subject: Denial of application for an exploration project

Docket No.: DMEA-3608

Commodity: Uranium

Applicant: Burtner's, Inc.,
1328 S. Florence
Springfield, Missouri

Property: SW/4 of SE/4 and 3 acres in N. W. corner of SE/4 of section 21. E/2 of NW/4 and NW/4 of NE/4 of section 28, all in T. 21 N., R. 27 W. 5th P. M., Barry County, Missouri

Date of application: December 16, 1954

Amount of application: $13,134

Work proposed: The Applicant proposes to explore a subterranean cavern for radioactive materials reported found there by Logan Lieb and some German scientists during the period of World War I. He proposes to make the cavern entrance accessible and safe, to map the cavern, cut channel samples along the "ore" exposures, and use an electric drill to augur shallow drill hole samples in the roof, floor, walls, and pillars of the cavern.

Field Team Report: The application was not referred to the Field Team for an examination and report because of the obvious lack of merit in the proposed project.

In transmitting the application to the Washington Office, the Executive Officer, DMEA Field Team, Region VI, stated he had virtually no tangible data pertinent to the area or the cavern the Applicant has tried to describe in his application. The Executive Officer noted that the application does not include some of the supporting statements that Mr. Burtner made verbally to him during his several visits to the Regional Office during December,

although the Applicant stated he has proof of the presence of radioactive material in the cavern in accordance with the legendary Logan Lieb story.

Commodity Committee Members' Comments:

Geological Survey - E. L. Newcomb, December 30, 1954

States that a search through the Missouri State Survey publications did not disclose any appropriate information with regard to the origin of the Logan Lieb myth. The Missouri State Survey Information Circular No. 5, (1949) Notes on Uranium, does not mention a deposit in Barry County, although it does briefly cover known uranium deposits which occur elsewhere in Missouri.

More information is needed before a field referral can be considered, which may be obtained from both the A.E.C. and the Applicant.

The present application does not indicate that a sound, worthwhile DMEA project has been presented, nor a proposal which merits exploration assistance.

Bureau of Mines - John E. Crawford, January 10, 1955, following discussion with Joseph O. Hosted, representative of the Atomic Energy Commission:

"We suggest that the application be denied, inasmuch as on November 18, 1954, Robert E. Russell of the Atomic Energy Commission made a preliminary reconnaissance survey of the subject property and reported no evidence of uranium mineralization was found thereon."

Rare and Miscellaneous Metals Division - Ernest Wm. Ellis, January 12, 1955:

Upon checking with the AEC relative to Item 3 of Clinton C. Knox's letter of December 17, 1954, it was ascertained that no sample had been received by that Agency although reports had reached them that a sample had been sent and as a result of said report, several searches had been instigated.

Recommend that the application be denied for the reasons outlined in the above Uranium Commodity Committee members' comments.

Ernest Wm Ellis

Ernest Wm. Ellis

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

January 10, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 10 1955

Memorandum

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

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3608, Burtner', Inc., 1328 S. Florence, Springfield, Missouri

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

We suggest that the application be denied, inasmuch as on November 18, 1954, Robert T. Russell of the Atomic Energy Commission made a preliminary reconnaissance survey of the subject property and reported no evidence of uranium mineralization was found thereon.

John E. Crawford

John E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford
F i l e s

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

January 10, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 10 1955

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Uranium Commodity Committee

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J. E. Crawford
F i l e s

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

January 10, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 10 1955

Memorandum

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

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3608, Bartner', Inc., 1328 S. Florence, Springfield, Missouri

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

We suggest that the application be denied, inasmuch as on November 18, 1954, Robert T. Russell of the Atomic Energy Commission made a preliminary reconnaissance survey of the subject property and reported no evidence of uranium mineralization was found thereon.

John E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford
F i l e s

1/5/55 zla

IN REPLY REFER TO:

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

DEPT. OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN - 4 1955

December 30, 1954

RE: DMEA-3608
Burtner's Inc.
(Mineralized Cavern)
Barry Co., Missouri
$13,134 - Uranium

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

We are not able to add very much to the information already presented in the application.

An effort has been made to determine the origin of the Logan Lieb myth. However, a search through the Missouri State Survey publications did not disclose any appropriate information. The Missouri State Survey Information Circular No. 5, (1949) Notes on Uranium, does not mention a deposit in Barry County, although it does briefly cover known uranium deposits which occur elsewhere in Missouri.

From Mr. Knox's transmittal letter, I would assume that the A.E.C. offices at Denver and Washington could help us considerably in determining our best course of action on this application.

More information is needed before a field referral can be considered, which may be obtained from both the A.E.C. and the applicant.

The present application does not indicate that we have a sound, worthwhile DMEA project under consideration, nor a proposal which merits exploration assistance.

E. L. Newcomb
E. L. Newcomb

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN - 4 1955

December 30, 1954

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ELNewcomb:edf

E. L. Newcomb

Copy to: J. E. Cfawford, 3641
DMEA (3)
Director's reading, 4212
Branch reading, 4212

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN - 4 1955

December 30, 1954

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Burtner's Inc.
(Mineralized Cavern)
Barry Co., Missouri
$13,134 - Uranium

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E. L. Newcomb

Copy to: J. E. Crawford, 3641
DMEA (3)
Director's reading, 4212

Branch reading, 4212

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN - 4 1955

December 30, 1954

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Burtner's Inc.
(Mineralized Cavern)
Barry Co., Missouri
$13,134 - Uranium

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ELNewcomb:edf

E. L. Newcomb

Copy to: J. E. Crawford, 3641
DMEA (3)
Director's reading, 4212

Branch reading, 4212

December 21, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region VI

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region VI.

DMEA - 3608 Burtner's Inc.

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

Burtner's Inc.
1328 S. Florence
Springfield, Missouri

December 21, 1954
Subject: DMEA-3608
Re: Exploration Assistance

Gentlemen:

The receipt of your application dated December 16, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3608 and referred to the Rare and Miscellaneous 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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

P. O. Box #431
Joplin, Missouri

December 17, 1954

Operation's Control and Statistic's Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Burtner's Inc.
Application for a uranium exploration project contract, Barry County, Mo.

Dear Sirs:

Transmitted herewith are the original and two copies of the subject application brought to this office today by Mr. H. L. Burtner, representing the applicant corporation. A fourth copy is being retained in the Field Team file awaiting your assignment of a docket number and possible reviews by the Commodity Group and/or a field referral which I believe may be found justifiable.

I have virtually no tangible data pertinent to the area or the cavern Mr. Brutner has tried to describe in this application. He states, however, that he has proof it is the cavern in the interesting story of the legendary Logan Lieb and his early work on the radioactive materials reportedly found there. A similar story has been told applying to the various other caverns and mines in that Missouri-Arkansas locality. Other persons have informed me that a concern which prospected and had some magnetic surveying done about three years ago in the adjacent Radium Springs area, had collected photostatic copies of many of the published accounts of the Lieb story.

I note that the application does not include some of the supporting statements that Mr. Burtner made verbally to me during his several visits here this month when I tried to give assistance and suggestions for its preparation. Among them are the following which might furnish worthwhile references:

1. Reportedly a Mr. Russell of the A.E.C. Offices in Denver, visited this property on November 10, 1954.

2. Mr. Ernest Blessing, Mining Engineer, Conservation Branch of the Geological Survey, Miami, Okla. visited the property about Nov. 1, 1954, in connection with the leases being negotiated on adjacent National Forest land.

3. Reportedly a 5-pound sample of the black rock (presumably like the small piece Messrs. Burtner and Gissy brought in here on December 6, 1954, which appeared different than any uranium ore I had ever seen) was submitted to a Mr. Tully of the A.E.C. Offices in Washington, D. C., sometime during the past year.

Jan. 11-'55
No sample rec'd. to-date by A.E.C.
EWR.

4. The Arkansas State Geologist's Office has analytical data on the radioactive material, according to Mr. Burtner's statement.

5. Mr. Burtner also stated that Dr. Edward L. Clark, Missouri State Geologist, now on temporary duty with the President's Security Council in Washington, D. C., had visited the property.

6. Mr. Burtner also described a second caved entrance to the cavern higher up on the mountain which he believes he can locate and reopen as a part of the proposed excavating work to furnish an exhaust for the bad air in the cavern.

7. Based on his reported one trip into the "ore" area of the cavern, Mr. Burtner described his exploration plan, after making the cavern entrance accessible and safe, would be merely to map the cavern, cut channel samples along the "ore" exposures, and use an electric drill to auger shallow drill hole samples in the roof, floor, walls, and pillars of the cavern.

Sincerely yours,

Clinton C. Knox

Clinton C. Knox
Executive Officer
DMEA Field Team, Region VI

CCK/vks

Encl. (3)

cc: DMEA Operating Committee (2)
Pending appl. file (1)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MINERALS TECHNOLOGY DIVISION
DEC 17 1954
BUREAU OF MINES
JOPLIN, MO.

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. 3608
Metal or Mineral Lead & Zinc
Date Received
Estimated Cost $43,134
Participation (Government Aid)

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: Burtner Inc., 1328 S. Florence Springfield Mo.

(*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. A Missouri Corp.

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

(*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 SW/4 SE/4 and Inquiries in NW Corner of SE/4 of sec 21, N.W and NW/4 - NE/4 of sec 28 all in T21N, R27W. see 3rd Insert.

(*b*) State any mine name by which the property is known. None at Present

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

(*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. Copy of leases attached

(*e*) If you own the land, describe any liens or encumbrances on it None Not applicable

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Not applicable

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

(*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.*—(*a*) State the mineral or minerals for which you will to explore Uranium

(*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. See attached sketch.

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☑ Money ☑ Use of equipment owned by you ☑ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Dec 16, 1954

Burtner's Inc
(Applicant)

By H. L. Burtner Jr. Pres

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

BURTNER'S

ENGINEERS
INSPECTIONS and TESTS

The Bruce Williams Laboratories

ESTABLISHED 1898
Main Office 618-622 Joplin Street Telephone 556
JOPLIN, MISSOURI

CHEMISTS
INDUSTRIAL and ANALYTICAL

Picher, Oklahoma
Connell Hotel Bldg.
Telephone 710

St. Louis, Missouri
306 Valley Drive
Telephone Imperial 3226

Mr. H. L. Burtner
1328 S. Florence
Springfield, Missouri

12-10-54

OUR NO.	MARK	DESCRIPTION	ZINC	IRON	LEAD	LIME	MOISTURE
692932	Black Rock						
		Uranium Oxide U_3O_8	1.89				

Bruce Williams

UARCO INC. - CHICAGO

Insert.

1.C. H. L. Burtner Sr. President.
Lorraine Kuhl. Vice Pres.
Carl H. Kuhl. Sec & Treas.
Foster Lattimer
Emmett Flood.

} Board of directors all of Springfield Mo

3A. SW/4. SE/4 and 3 acres in N. W. Corner of S. E./4. of section 21. E/2. N. W/4 and N. W/4. N. E./4 of section 28. all in T. 21. N. R 27 W. Barry County Missouri. But the following adjoining tracts under lease assignments on which application is not Proposed. Possibly may be benefitted! The W/2 of sec 21. (Govt land held under assigned lease.) The N. W/4 and the N/2. S. E/4 and the S E/4. S E/4 (excepting the Three acres described above.) sec 21. the S/2. SW/4 of sec 22. the N/2. N. W/4 of sec 27 also all in the above described township plus all Govt. land in sec 22 and 28. on which negiotions for leases are now in process.

3.D. Copies of leases attached

C
O
P
Y

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, BUTLER HOLLOW MINING COMPANY, INC., a Missouri corporation, hereinafter referred to as Assignor, does hereby assign to BURTNERS, INC., a Missouri corporation, hereinafter referred to as Assignee, all of its right, title and interest in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> The East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof, in Barry County, Missouri.

It is further agreed between the parties hereto that all of the right, title and interest in the above described land arises by virtue of a certain lease between the Radium Springs Land Company, Inc., an Illinois corporation, and Homer L. Burtner, Sr., of Springfield, Missouri, which said lease is recorded in Book 208, Page 7, of the Office of Recorder of Deeds of Barry County, Missouri; and the subsequent assignment from Homer L. Burtner, Sr., of an undivided one-third (1/3) interest to E. J. Gissy, of Breese, Illinois; and an undivided one-third (1/3) interest to Herbert Stratton, of Springfield, Missouri; and that the said Homer L. Burtner, Sr., and Lucile Burtner, his wife, E. J. Gissy, a single person, and Herbert Stratton and Lena Mai Stratton, his wife, have subsequently assigned to Butler Hollow Mining Company, Inc., a corporation, the Assignor herein, and that said assignments are recorded in the following book and page numbers in the Office of Recorder of Deeds, Barry County, Missouri: Book _____, Page _____; Book _____, Page _____; and Book _____, Page_____; Book _____, Page _____; and Book _____, Page _____.

It is further understood that the Assignee herein takes subject to the above mentioned lease and subsequent assignments and that the Assignor herein grants no more to the Assignee herein than it had by virtue of the above lease and subsequent assignments.

It is expressly understood by the parties hereto that as a consideration for this assignment that the Assignee agrees to pay a minimum monthly rental of Seventy-five ($75.00) Dollars per month beginning on the _____ day of July, 1954, and that as additional consideration that it shall comply with the rents and royalties provisions in the lease mentioned above and the subsequent assignments by which it is obligated to pay to the Radium Springs Land Company fifteen (15%) percent of the gross market value of all ores and minerals taken from the premises; that Assignee shall pay to Homer L. Burtner and Lucile Burtner, his wife, five (5%) percent of the gross market value of all ores and minerals taken from the premises; that Assignee agrees to pay to E. J. Gissy the sum of five (5%) percent of the gross market value of all ores and minerals taken from said premises; that Assignee agrees to pay to Herbert Stratton and Lena Mai Stratton, his wife, five (5%) percent of the gross market value of all ores and minerals taken from said premises; and that Assignee agrees to pay to Butler Hollow Mining Company, Inc., a corporation, fifteen (15%) percent of the gross market value of all ores and minerals taken from the said premises.

It is further agreed that the accounting for such gross market value of said ores and minerals taken from said premises shall be in accordance with the terms of the lease set out above and all the subsequent assignments.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals this 2nd day of July, 1954.

BUTLER HOLLOW MINING COMPANY, INC.

By /s/ Herbert Stratton, Sec.-Treas
Assignor

BURTNERS, INC.

By /s/ H. L. Burtner, Sr.
Assignee

STATE OF MISSOURI)
County of Greene) ss

On this 2nd day of July, 1954, before me appeared Herbert Stratton, to me personally known, being by me duly sworn, and did say that he is the Secretary of Butler Hollow Mining Company, Inc., a corporation, and that the seal affixed to the foregoing is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors and said Herbert Stratton acknowledged that instrument to be the free act and deed of said corporation.

(signed) Herbert Stratton, Sec.-Treas.

Subscribed and sworn to before me this 2nd day of July, 1954. My commission expires: March 11, 1957.

(seal) (signed) Mary E. Spivy
Notary Public

STATE OF MISSOURI)
County of Greene) ss

On this 2nd day of July, 1954, before me appeared Homer L. Burtner, Sr., to me personally known, being by me duly sworn, and did say that he is the President of Burtners, Inc., a corporation, and that the seal affixed to the foregoing is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors and said Homer L. Burtner acknowledged that instrument to be the free act and deed of said corporation.

(signed) H. L. Burtner, Sr. - Pres.

Subscribed and sworn to before me this 2nd day of July, 1954. My commission expires: March 11, 1957.

(seal) (signed) Mary E. Spivy
Notary Public

MINING LEASE

This Indenture, made this third day of June, 1954, by and between RADIUM SPRINGS LAND COMPANY, INC., an Illinois corporation, of Bresse, County of Clinton and State of Illinois, party of the first part, and Homer L. Burtner, Sr., of Springfield, Mo. party of the second part:

WITNESSETH, That the said party of the first part, in consideration of the sum of One Dollar ($1.00) in hand paid, receipt of which is hereby acknowledged, and of the undertakings and agreements hereinafter set forth to be kept and performed by the said party of the second part, his heirs or assigns, and the royalties to be paid as hereinafter set out, do by these presents demise and lease unto the said party of the second part, his heirs or assigns, the following described tract or parcel of land, situated in Barry County, State of Missouri, and more particularly described as follows, to-wit:

> East Half of the Northwest Quarter, and the Northwest Quarter of the Northeast Quarter of Section 28; and the Southwest Quarter of the Southeast Quarter, and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof;

for the purpose of digging, drilling, prospecting and mining said land for uranium, lead, zinc, coal, asphaltum, and every kind of valuable mineral or ore, granting also to the party of the second part, his successors or assigns, the right to erect all necessary buildings and machinery on said land for the purpose of mining and dressing, crushing and cleaning ores thereon, and to remove the same at the expiration or forfeiture of this lease, except timbering and other improvements necessary to support the ground. All uses of the ground, not consistent with thorough and proper mining, as herein required, are hereby reserved to the said party of the first part.

This lease shall be and remain in full force for a period of two years from the date hereof and as long thereafter as production of any of the foregoing minerals and/or ores is had in sufficient commercial or paying quantities to provide a royalty to the party of the first part of not less than Seventy-five Dollars ($75.00) per month. It is understood and agreed that if at the end of said two year period ore and/or minerals are not being produced from said premises in sufficient quantities to provide the foregoing minimum royalty payment then this lease shall terminate and be null and void.

The said party of the second part, his successors and assigns, shall mine said land in a good, thorough and workmanlike manner, and shall keep all shafts and drifts well and securely timbered and supported, and shall not remove such timbers and supports so as to endanger the ground, or permit the same to cave or fall in. Mining shall be carried on in good faith, continuously, and shall not be suspended at any time to exceed forty days in any three successive calendar months, except on written permission of the said party of the first part. Delays caused by unavoidable accidents, or causes beyond the control of the party of the second part, are excepted.

The said party of the second part, his successors, and assigns, shall keep a correct account of all ores and/or minerals mined, the kind and weight thereof, to whom sold and the price received therefor, which books shall be open to the inspection of the partyoof the first part at all reasonable times.

The said party of the second part, his successors and assigns shall pay to the party of the first part, its successors and assigns, at Breese, Illinois, on the 15th day of each month a royalty in the amount of fifteen per cent (15%) of the gross market value of all ores and/or minerals mined or sold during the preceeding month with a statement showing the amount and kind of ores and/or minerals sold, to whom sold and the price received from same. Provided further that the party of the second part shall pay to the party of the first part a

minimum monthly rental of Seventy-five Dollars ($75.00) per month beginning third day of June, 1954.

It is further understood and agreed that at any time during the term of this lease the party of the first part or any of its officers, stockholders or anyone authorized by them, or either of them, may go upon the premises herein leased for the purpose of making an inspection or for any other purpose which is not prejudicial to the rights of the party of the second part.

Any failure upon the part of the party of the second part to comply with and perform the requirements of this lease in good faith shall terminate said lease and the party of the first part may, without any court proceedings of any kind or character, reenter upon and take possession of said premises and this lease shall be null and void.

IN WITNESS WHEREOF, THE said parties have hereunto set their hands and seals in duplicate, the day and year first above written.

RADIUM SPRINGS LAND COMPANY, INC.
(Party of the First Part)

By (signed) Roland A. Zirkel (SEAL)
President

ATTEST:

(signed) H. L. Diekemper
(Secretary)

(signed) Homer L. Burtner, Sr. (SEAL)
Party of the Second Part

STATE OF ILLINOIS)
) ss.
County of Clinton)

I, Ray Schlueter, a Notary Public in and for said county and State aforesaid, do hereby certify that Roland A. Zirkel, President, and H. L. Diekemper, Secretary of the Radium Springs Land Company, Inc., who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such President and Secretary, appeared before me this day in person and severally acknowledged that they signed, sealed and delivered the said instrument of writing as their free and voluntary act, and as the free and voluntary act of the said corporation for the uses and purposes therein set forth, pursuant to authority given by the Board of Directors of said corporation and caused the corporate seal of said corporation to be thereto attached.

Given under my hand and notarial seal this 3rd day of June, 1954.

(seal) (signed) Ray Schlueter
Notary Public

My commission expires: July 23, 1958.

STATE OF MISSOURI)
) ss.
County of Greene)

I, R. M. Corlett, a Notary Public in and for said County, in the State aforesaid, do hereby certify that Homer L. Burtner, Sr., personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

Given under my hand and seal this 11th day of June, 1954.

(seal) (signed) R. M. Corlett
Notary Public

My commission expires: July 29, 1955

BURTNER'S Inc.
Springfield Mo
326 - S. Florence

This is to certify that chattel mortgage was duly filed in office of Recorder of Deeds of Barry County, Missouri at 11 o'clock 30 minutes this 11 day of June, 1954.

Billie Holman
Circuit Clerk & Ex-Officio
Recorder of Deeds.

State of Missouri)
County of Barry) ss

IN THE RECORDER'S OFFICE

I, Billie Holman, Circuit Clerk & Ex-Officio Recorder of Deeds within and for the County aforesaid, do certify that the instrument of writing hereto attached, with the certificate thereon was filed for record in said office on the 11 day of June, 1954, at 11 o'clock and 30 minutes A. M. and that the same is duly recorded in said office in Book 208 for recording at Page 7.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of my said office. Done at Cassville this 11 day of June, 1954.

Billie Holman
Circuit Clerk & Ex-Officio Recorder of Deeds

$3.50 pd.
Recording fee

C
O
P
Y

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned Herbert Stratton and Lena Mai Stratton, his wife, of the County of Greene, in the State of Missouri, hereinafter referred to as Assignors, for and in consideration of the Assignee's compliance with the terms and conditions of a certain mining lease, including payment of rents as provided in said lease, such lease being dated June 3, 1954 and running from the Radium Springs Land Company, Inc., an Illinois corporation, of Breese, County of Clinton, Illinois, to Homer L. Burtner, of Springfield, Missouri, the same being recorded in Book 208, Page 7, in the Office of the Recorder of Deeds of Barry County, Missouri, and for the further consideration of the payment to the Assignors as additional royalty the amount of five (5%) percent of the gross market value of all ores and/or minerals mined or sold during the preceding month by the statement showing the amount and kind of ores and/or minerals sold, to whom sold and the price received for the same, such payment to be made on the 15th day of each month, does hereby sell, assign, transfer, set over and convey unto the Butler Hollow Mining Company, Inc., all of the said Herbert Stratton and Lena Mai Stratton's interest in such mining lease set out above in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof,

together with the rights incident thereto and the personal property thereon, appurtenant thereto, or used or obtained in connection therewith.

And for the same consideration the Assignors covenant with the Assignee, its or his heirs, successors or assigns: That the Assignors are the lawful owner of and have good title to the interest above assigned in and to said lease, estate, rights and property, free and clear from all liens, encumbrances or adverse claims; that said lease is a valid and subsisting lease on the land above described, and all rentals and royalties due thereunder have been paid and all conditions necessary to keep the same in full force have been duly performed; and that the Assignors will warrant and forever defend the same against all persons whomsoever, lawfully claiming or to claim the same.

It is further expressly understood by the parties hereto that the royalties set out above to be paid to the Assignors are in addition to the royalties made payable under the lease executed by the Radium Springs Land Company, Inc., to Homer L. Burtner.

Executed this 16th day of June, 1954.

(signed) Herbert S tratton

(signed) Lena Mai Stratton

STATE OF MISSOURI)
) ss
County of Greene)

On this 16th day of June, 19 54, before me, a Notary Public in and for said County, personally appeared Herbert Stratton and Lena Mai Stratton, his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Springfield, Missouri in said County and State, the day and year first above written.

(signed) Mary E. Spivy
Notary Public

(seal) My commission expires March 11, 1957.

C O P Y

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned E. J. GISSY, a single person xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx, of the County of Clinton, in the State of Illinois, hereinafter referred to as Assignors, for and in consideration of the Assignee's compliance with the terms and conditions of a certain mining lease, including payments of rents as provided in said lease, such lease being dated June 3, 1954 and running from the Radium Springs Land Company, Inc., an Illinois corporation, of Breese, County of Clinton, Illinois, to Homer L. Burtner, of Springfield, Missouri, the same being recorded in Book 208, Page 7, in the Office of the Recorder of Deeds of Barry County, Missouri, and for the further consideration of the payment to the Assignors as additional royalty the amount of five (5%) percent of the gross market value of all ores and/or minerals mined or sold during the preceding month by the statement showing the amount and kind of ores and/or minerals sold, to whom sold, and the price received for the same, such payment to be made on the 15th day of each month, does hereby sell, assign, transfer, set over and convey unto the Butler Hollow Mining Company, Inc., all of the said E. J. Gissy's and ______ ______ interest in such mining lease set out above in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof,

together with the rights incident thereto and the personal property thereon, appurtenant thereto, or used or obtained in connection therewith.

And for the same consideration the Assignors convenant with the Assignee, its or his heirs, successors or assigns: That the Assignors are the lawful owner of and have good title to the interest above assigned in and to said lease, estate, rights and property, free and clear from all liens, encumbrances or adverse claims; that said lease is a valid and subsisting lease on the land above described, and all rentals and royalties due thereunder have been paid and all conditions necessary to keep the same in full force have been duly performed; and that the Assignors will warrant and forever defend the same against all persons whomsoever, lawfully claiming or to claim the same.

It is further expressly understood by the parties hereto that the royalties set out above to be paid to the Assignors are in addition to the royalties made payable under the lease executed by the Radium Springs Land Company, Inc., to Homer L. Burtner.

Executed this 16th day of June, 1954.

(signed) E. J. Gissy

STATE OF MISSOURI)
) ss
County of Greene)

On this _____ day of _____, 19____, before me, a Notary Public in and for said County, personally appeared E. J. GISSY, a single person xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx, to me known to be the person__ described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Springfield, Missouri in said County and State, the day and year first above written.

(signed) Mary E. Spivy
Notary Public

(seal) My commission expires Marcy 11, 1957.

C
O
P
Y

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned Homer L. Burtner, Sr. and Lucile Burtner, his wife, of the County of Greene, in the State of Missouri, hereinafter referred to as Assignors, for and in consideration of the Assignee's compliance with the terms and conditions of a certain mining lease, including payment of rents as provided in said lease, such lease being dated June 3, 1954 and running from the Radium Springs Land Company, Inc., an Illinois corporation, of Breese, County of Clinton, Illinois, to Homer L. Burtner, of Springfield, Missouri, the same being recorded in Book 208, Page 7, in the Office of the Recorder of Deeds of Barry County, Missouri, and for the further consideration of the payment to the Assignors as additional royalty the amount of five (5%) percent of the gross market value of all ores and/or minerals mined or sold during the preceding month by the statement showing the amount and kind of ores and/or minerals sold, to whom sold and the price received for the same, such payment to be made on the 15th day of each month, does hereby sell, assign, transfer, set over and convey unto the Butler Hollow Mining Company, Inc., all of the said Homer L. Burtner, Sr. and Lucile Burtner's interest in such mining lease set out above in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Sourtheast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof,

together with the rights incident thereto and the personal property thereon, appurtenant thereto, or used or obtained in connection therewith.

And for the same consideration the Assignors covenant with the Assignee, its or his heirs, successors or assigns: That the Assignors are the lawful owner of and have good title to the interest above assigned in and to said lease, estate, rights and property, free and clear from all liens, encumbrances or adverse claims; that said lease is a valid and subsisting lease on the land above described, and all rentals and royalties due thereunder have been paid and all conditions necessary to keep the same in full force have been duly performed; and that the Assignors will warrant and forever defend the same against all persons whomsoever, lawfully claiming or to claim the same.

It is further expressly understood by the parties hereto that the royalties set out above to be paid to the Assignors are in addition to the royalties made payable under the lease executed by the Radium Springs Land Company, Inc., to Homer L. Burtner.

Executed this 16th day of June, 1954.

(signed) Homer L. Burtner, Sr.

(signed) Lucile Burtner

STATE OF MISSOURI)
) ss
County of Greene)

On this 16th day of June, 19 54, before me, a Notary Public in and for said County, personall appeared Homer L. Burtner, Sr. and Lucile Burtner, his wife, to me known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Springfield, Missouri in said County and State, the day and year first above written.

(signed) Mary E. Spivy
Notary Public

(seal) My commission expires: March 11, 1957.

ELKINS-SWYERS CO., SPRINGFIELD, MO.

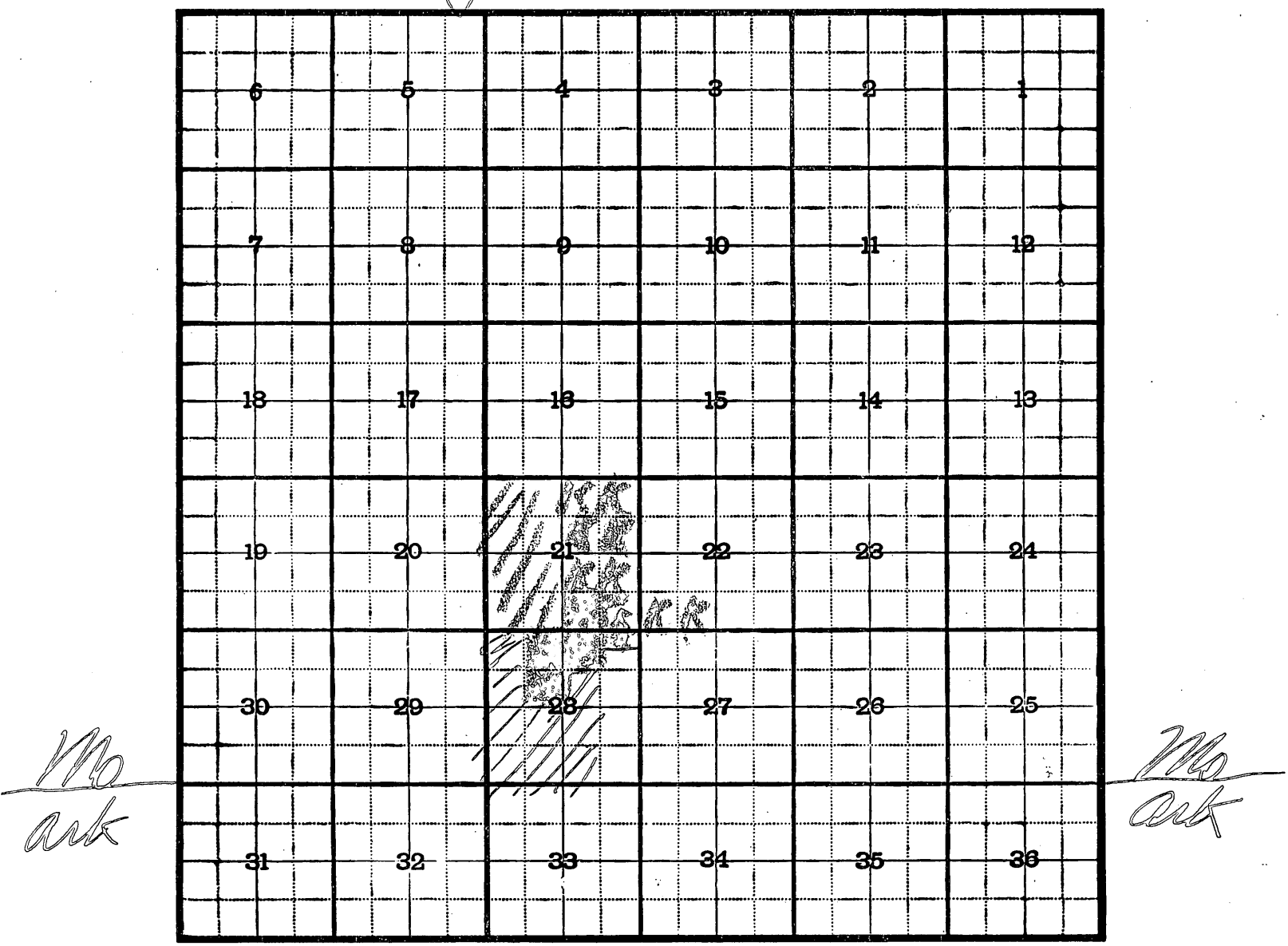
Form 86

4-A

TOWNSHIP PLAT

Township 21 North Range 27 West 5th P.M.

County of Barry State of Mo & Ark



Land Under lease

Kuhl Tract

Govt land which applicant has been Made

Govt land held under assigned lease.

BURTNER'S Inc
Springfield Mo
1328 S. Fremont

Insert.

4.A Have done Bulldozing, dynamiting, pick & Shovel work and Excavating.

This Property Was Worked several years ago by Logan Lieb and some German Scientists about World war I. The openings they used were dynamited shut. The main entrance is now partially opened. It will require work as illustrated before this job can be completed.

See Technical World magazine Jan. 1913 page 593.

RECEIVED DEC 20 1954

H. L. Buxner has spent approx $10,000.00 this last summer on excavating by Bulldozer, blasting, Pick & Shovel in effort to drain and gain access to an entrance to the subterranean caverns. Following an unprecendented 2 year drouth, he was able to inspect about 1600 ft. of these tortuous passages, at two times last February when he discovered the Ore. Then the underground stream rose, blocking the passage, and the excavation work was begun. That work was stopped in Oct. 1954. When heavy rains came, and the applicant was temporarily hurt. Mr Logan Lieb and some German scientists did remove some radio active ore to be shipped to Germany, but could not get the ore out of the U.S. Have at only one time been able to bring out a small amount of ore. (see assay report). Also there is Radon or Helium Gas in caverns.

BURTNER'S Inc
Springfield Mo
1328 S. Florence

Insert.

4. B. No current Production and no record of exactly how much was taken out Previously (ore reserves) was able during drought on two occasions only to penetrate far enough under this mountain to come in contact with ore. In my opinion there are thousands of tons of Ore in sight, lots of Gas and bad air trapped behind water and Mud. This Ore all looks like Pitchblend. Was able to bring out only small tonnage.

4. C. The mountain is made up of limestone and sandstone rock. The interior (that is now flooded) consists of numerous underground caverns and Passageways. and the work outlined we will be able to drain these caverns by Gravity. We have tried pumps and at 60,000 gal an hour and over a period of 7 days (24 hrs per day) could not lower the water enough to gain entrance.

(2) (Type of deposit) Pitchblend both Vein + bedded.

(3) By removing enough earth according to attached plan water will drain and we will be able to get back to Ore. Before this was blasted shut and Valley filled the bottom was 16 ft lower than at Present. We want to go 18' below present.

see sketches attached.

BURTNER'S Inc
Springfield Mo
1378. S. Fremont

4(c) Local labor available, any necessary material especially at present, available locally.
Railroad within half mile. Railroad will build siding.
Shipping point unknown. Plenty of water
Power line within 2. Miles.

4.d. County road ½ mile from project, also good entrance road.

5.a. over 50% of proposed work will be done by Contract. (see attached work sheet.) The balance will be handled by N.h. Buster and Necessary experienced help.

6.A. Earth moving contract. est 9100 cu. yds. @ 1.00 per yd. $ 9100.00

B. Engineering & Consulting service 750.00
Sampling & Mapping
Labor, helpers, & Muckers 480 hrs @ 2.00 960.00
Supervision 60 days. 800.00
Powder man. Expert. 100 hrs @ 2.00 200.00
Analysis of Samples. 20 @ 7.50 150.00

C. Compressor rental. 20.00 per day. Time used Basis. 100.00
Light plant rental. Wiring & lamps 60 days. 450.00

D. Will rent air Compressor @ 20.00 per day. on Time used Basis only.

BURTNER'S

Kampfire Mo

1328 S. Florence

Continued

(D) Will rent light plant 110-220 AC. 10KW. at 10.00 per day. Can use Elec drill from this plant if necessary. Hand tools we have.

C. No. Water problem or fuel problem

other items such as

Emergency lights, Kero lanterns 10 @ 3.50 ea. 35.00

Waders (Rubber) 4 suits @ 25.00 100.00

Helmets 10 @ 2.50 25.00

D. Contractor furnishes, dozers dragline, and all necessary earth moving equip. to be paid for with contract @ $1.00 per Cu. Yd.

E. Do not have any thing under this heading.

F. Nothing under this heading.

G. Insurance, Liability 180 days. @ 3.00 540.00

Workmans Compensation (Est) 300.00

Bookkeeping & records. 400.00

H. Dynamite (20 cases) 50 lbs per case. 14.00 per case. 280.00

200 Elec Caps @ .22 ea. 44.00

BURTNER'S

In
Memphis Mo
18 J.C.S. Finance

Estimated Costs by Units

1.	Earth moving (contract est) McLean Const Co. 9100 Cu. Yds @ $1.00	$9100.00
2.	Engineering and Consulting Service Sampling and Mapping	750.00
3.	Labor, helpers, Muckers 480 hrs @ 2.00	960.00
4.	Supervision 60 days.	800.00
5.	Powder man (Expert) 100 hrs @ 3.00	300.00
6.	Sampling & Analysis. (Lab work) 20 samples @ 7.50	150.00
7.	Compressor rental, Line used Basis	100.00
8.	Light plant rental, Wiring & lamps 60 days.	450.00
9.	Emergency & Kerosene lights 10 @ 3.50	35.00
10.	Waders (Rubber) 4 units @ 25.00	100.00
11.	Helmets 10 @ 2.50 ea.	25.00
12.	Insurance, Liability 180 days @ 3.00	540.00
13.	Workmans Compensation (Est)	300.00
14.	Bookkeeping & records.	400.00
15.	Dynamite & Elec Caps.	324.00

Total 13,134.00

BURTNER'S Inc
Springfield Mo
1326 S. Fremont

7. B. My time will be given no chg.
We have necessary tools + Mud
Pumps + Motors, Truck. Truck will
be able to expediate this job.
Our time + tools will equal more
than 25%. But will also furnish
Money if Necessary.

H L B

BURTNER'S Inc
Springfield Mo
1326 S. Fremont

ESTIMATE

McLEAN CONSTRUCTION COMPANY

SPRINGFIELD, MISSOURI

Date 12/9/54

Architect or Engr. _____ Job _____

QUANTITY	B M 100.00 Assumed		
Station		Present Grade	Proposed Grade
0 + 00	Entrance to cave	95.70	77.70
0 + 50		95.20	77.20
1 + 00		90.50	76.70
1 + 50		87.40	76.20
2 + 00		85.70	75.70
2 + 50		85.50	75.20
3 + 00		84.90	74.70
3 + 50		84.10	74.20
4 + 00		81.50	73.70
4 + 50		82.00	73.20
5 + 00		81.00	72.70
5 + 50	Bank of Stream	79.40	72.20
6 + 00	Channel	76.50	71.70
6 + 50		76.00	71.20
7 + 00		74.70	70.70
7 + 50		74.30	70.20
8 + 00		73.70	69.70
8 + 50		71.70	69.20
9 + 00		70.00	68.70
9 + 50		68.50	68.20
10 + 00		67.60	67.70
	Proposed finished grade - 1 %		

BURTNER'S Inc
Springfield Mo
1328 S. Florence

McLean Construction Co.
CONTRACTORS
SPRINGFIELD, MISSOURI

P. O. BOX 205
PHONE 4-7344
1846 E. SUNSHINE

December 9, 1954

Mr. H. L. Burtner,

In connection with the proposed excavation for a channel from the mouth of the cave to a point approximately 1000 feet in the existing stream bed:

We propose to excavate and dispose of material as follows:

Approximately 4400 cubic yards from the mouth of the cave, east 200 feet, including necessary work on slides and present stock piles, approximately 4700 cubic yards from the above described location to the low point in the stream bed, including all necessary clearing - for the sum of $1.00 per cubic yard.

In the event it is necessary to move solid rock, we propose to rent our compressor, drills, tools, etc., for $20.00 per day. You are to furnish all labor, blasting materials, etc.

We checked the grades on the proposed channel, and find that it will be necessary to cut 18 feet deep at the mouth of the spring, and at a 1% grade, the channel will be approximately 1000 feet long, terminating in the existing stream bed.

Yours very truly,

McLEAN CONSTRUCTION COMPANY

Harold Crowder

Harold Crowder

HC/hv

THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA

BURTNER'S Inc
Springfield Mo
1320 N. S. Florence

COPY - DMEA [illegible]rating Committee

Crawford

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

P. O. Box #431
Joplin, Missouri

December 17, 1954

Operation's Control and Statistic's Division
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Burtner's Inc.
Application for a uranium exploration project contract, Barry County, Mo.

Dear Sirs:

Transmitted herewith are the original and two copies of the subject application brought to this office today by Mr. H. L. Burtner, representing the applicant corporation. A fourth copy is being retained in the Field Team file awaiting your assignment of a docket number and possible reviews by the Commodity Group and/or a field referral which I believe may be found justifiable.

I have virtually no tangible data pertinent to the area or the cavern Mr. Brutner has tried to describe in this application. He states, however, that he has proof it is the cavern in the interesting story of the legendary Logan Lieb and his early work on the radioactive materials reportedly found there. A similar story has been told applying to the various other caverns and mines in that Missouri-Arkansas locality. Other persons have informed me that a concern which prospected and had some magnetic surveying done about three years ago in the adjacent Radium Springs area, had collected photostatic copies of many of the published accounts of the Lieb story.

I note that the application does not include some of the supporting statements that Mr. Burtner made verbally to me during his several visits here this month when I tried to give assistance and suggestions for its preparation. Among them are the following which might furnish worthwhile references:

1. Reportedly a Mr. Russell of the A.E.C. Offices in Denver, visited this property on November 10, 1954.

2. Mr. Ernest Blessing, Mining Engineer, Conservation Branch of the Geological Survey, Miami, Okla. visited the property about Nov. 1, 1954, in connection with the leases being negotiated on adjacent National Forest land.

3. Reportedly a 5-pound sample of the black rock (presumably like the small piece Messrs. Burtner and Gissy brought in here on December 6, 1954, which appeared different than any uranium ore I had ever seen) was submitted to a Mr. Tully of the A.E.C. Offices in Washington, D. C., sometime during the past year.

4. The Arkansas State Geologist's Office has analytical data on the radioactive material, according to Mr. Burtner's statement.

5. Mr. Burtner also stated that Dr. Edward L. Clark, Missouri State Geologist, now on temporary duty with the President's Security Council in Washington, D. C., had visited the property.

6. Mr. Burtner also described a second caved entrance to the cavern higher up on the mountain which he believes he can locate and reopen as a part of the proposed excavating work to furnish an exhaust for the bad air in the cavern.

7. Based on his reported one trip into the "ore" area of the cavern, Mr. Burtner described his exploration plan, after making the cavern entrance accessible and safe, would be merely to map the cavern, cut channel samples along the "ore" exposures, and use an electric drill to auger shallow drill hole samples in the roof, floor, walls, and pillars of the cavern.

Sincerely yours,

Clinton C. Knox
Executive Officer
DMEA Field Team, Region VI

CCK/vks

Encl. (3)

cc: DMEA Operating Committee (2)
Pending appl. file (1)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MINERALS TECHNOLOGY DIVISION
DEC 6 1954
BUREAU OF MINES
JOPLIN, MO.

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. 3608
Metal or Mineral Uranium
Date Received
Estimated Cost $13,134
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: Burtner's Inc.
1328 S. Fassnight
Springfield Mo.

(*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. a. Missouri Corporation

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

(*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 SW/4, SE/4 and 3 acres in N.W. Corner of SE/4 of Sec. 21, NW/4 and NW/4-NE/4 of Sec. 28 all in T29 N. R.27 W. See 3B Insert.

(*b*) State any mine name by which the property is known. None at present.

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

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

(*e*) If you own the land, describe any liens or encumbrances on it Not applicable

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Not applicable.

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. See Inserts.

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

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

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

5. *The exploration project.*—(State the mineral or minerals for which you to explore Uranium

(*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. see attached sketch.

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

☑ Money ☑ Use of equipment owned by you ☑ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated Dec 16, 195 4

Burtner's Inc
(Applicant)

By E. L. Burtner, Pres

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

BURTNER'S

ENGINEERS
INSPECTIONS and TESTS

The Bruce Williams Laboratories

ESTABLISHED 1898
Main Office 618-622 Joplin Street Telephone 556
JOPLIN, MISSOURI

CHEMISTS
INDUSTRIAL and ANALYTICAL

Picher, Oklahoma
Connell Hotel Bldg.
Telephone 710

St. Louis, Missouri
306 Valley Drive
Telephone Imperial 3226

Mr. H. L. Burtner
1328 S. Florence
Springfield, Missouri

12-10-54

OUR NO.	MARK	DESCRIPTION	ZINC	IRON	LEAD	LIME	MOISTURE
692932	Black Rock						
		Uranium Oxide U_3O_8	1.89				

Bruce Williams

UARCO INC. - CHICAGO

BURTNER'S
Springfield Ills
[illegible]

1. C. H. L. Burton Jr. President
Lorraine Kuhl. Vice Pres.
Carl N. Kuhl. Sec. + Treas.
Foster M. Kettner
Emmett. Flood.
} Board of directors all of Springfield Mo.

3. A. SW/4. SE/4. and 3 acres in N.W. Corner of S.E/4. of section 21. E/2. NW/4 and NW/4. NE/4 of section 28. all in T.21 N. R. 27 W. Barry County Missouri. But the following adjoining tracts under lease assignments on which application is not proposed, possibly may be benefitted: the W/2 of sec. 21. (Govt land held under assigned lease). The NW/4 and the N/2. SE/4 and the SE/4. SE/4 (excepting the 3 acres described above.) sec 21, the S/2. SW/4 of sec. 22, the N/2. NW/4 of sec 27. Also all in the above described township, plus all Govt. land in sec 22 and 28. on which negotiations for leases are now in process.

3. D. Copies of leases attached.

BURTNER'S Inc
Springfield Mo
13 U.S. Flower

C
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P
Y

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned, BUTLER HOLLOW MINING COMPANY, INC., a Missouri corporation, hereinafter referred to as Assignor, does hereby assign to BURTNERS, INC., a Missouri corporation, hereinafter referred to as Assignee, all of its right, title and interest in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> The East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof, in Barry County, Missouri.

It is further agreed between the parties hereto that all of the right, title and interest in the above described land arises by virtue of a certain lease between the Radium Springs Land Company, Inc., an Illinois corporation, and Homer L. Burtner, Sr., of Springfield, Missouri, which said lease is recorded in Book 208, Page 7, of the Office of Recorder of Deeds of Barry County, Missouri; and the subsequent assignment from Homer L. Burtner, Sr., of an undivided one-third (1/3) interest to E. J. Gissy, of Breese, Illinois; and an undivided one-third (1/3) interest to Herbert Stratton, of Springfield, Missouri; and that the said Homer L. Burtner, Sr., and Lucile Burtner, his wife, E. J. Gissy, a single person, and Herbert Stratton and Lena Mai Stratton, his wife, have subsequently assigned to Butler Hollow Mining Company, Inc., a corporation, the Assignor herein, and that said assignments are recorded in the following book and page numbers in the Office of Recorder of Deeds, Barry County, Missouri: Book _____, Page _____; Book _____, Page _____: and Book _____, Page_____; Book _____, Page _____: and Book _____, Page _____.

It is further understood that the Assignee herein takes subject to the above mentioned lease and subsequent assignments and that the Assignor herein grants no more to the Assignee herein than it had by virtue of the above lease and subsequent assignments.

It is expressly understood by the parties hereto that as a consideration for this assignment that the Assignee agrees to pay a minimum monthly rental of Seventy-five ($75.00) Dollars per month beginning on the _____ day of July, 1954, andthat as additional consideration that it shall comply with the rents and royalties provisions in the lease mentioned above and the subsequent assignments by which it is obligated to pay to the Radium Springs Land Company fifteen (15%) percent of the gross market value of all ores and minerals taken from the premises; that Assignee shall pay to Homer L. Burtner and Lucile Burtner, his wife, five (5%) percent of the gross market value of all ores and minerals taken from the premises; that Assignee agrees to pay to E. J. Gissy the sum of five (5%) percent of the gross market value of all ores and minerals taken from said premises; that Assignee agrees to pay to Herbert Stratton and Lena Mai Stratton, his wife, five (5%) percent of the gross market value of all ores and minerals taken from said premises; and that Assignee agrees to pay to Butler Hollow Mining Company, Inc., a corporation, fifteen (15%) percent of the gross market value of all ores and minerals taken from the said premises.

It is further agreed that the accounting for such gross market value of said ores and minerals taken from said premises shall be in accordance with the terms of the lease set out above and all the subsequent assignments.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals this 2nd day of July, 1954.

BUTLER HOLLOW MINING COMPANY, INC.

By /s/ Herbert Stratton, Sec.-Treas
Assignor

BURTNERS, INC.

By /s/ H. L. Burtner, Sr.
Assignee

STATE OF MISSOURI)
) ss
County of Greene)

On this 2nd day of July, 1954, before me appeared Herbert Stratton, to me personally known, being by me duly sworn, and did say that he is the Secretary of Butler Hollow Mining Company, Inc., a corporation, and that the seal affixed to the foregoing is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors and said Herbert Stratton acknowledged that instrument to be the free act and deed of said corporation.

(signed) Herbert Stratton, Sec.-Treas.

Subscribed and sworn to before me this 2nd day of July, 1954. My commission expires; March 11, 1957.

(seal) (signed) Mary E. Spivy
Notary Public

STATE OF MISSOURI)
) ss
County of Greene)

On this 2nd day of July, 1954, before me appeared Homer L. Burtner, Sr., to me personally known, being by me duly sworn, and did say that he is the President of Burtners, Inc., a corporation, and that the seal affixed to the foregoing is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors and said Homer L. Burtner acknowledged that instrument to be the free act and deed of said corporation.

(signed) H. L. Burtner, Sr. - Pres.

Subscribed and sworn to before me this 2nd day of July, 1954. My commission expires: March 11, 1957.

(seal) (signed) Mary E. Spivy
Notary Public

MINING LEASE

This Indenture, made this third day of June, 1954, by and between RADIUM SPRINGS LAND COMPANY, INC., an Illinois corporation, of Breese, County of Clinton and State of Illinois, party of the first part, and Homer L. Burtner, Sr., of Springfield, Mo. party of the second part:

WITNESSETH, That the said party of the first part, in consideration of the sum of One Dollar ($1.00) in hand paid, receipt of which is hereby acknowledged, and of the undertakings and agreements hereinafter set forth to be kept and performed by the said party of the second part, his heirs or assigns, and the royalties to be paid as hereinafter set out, do by these presents demise and lease unto the said party of the second part, his heirs or assigns, the following described tract or parcel of land, situated in Barry County, State of Missouri, and more particularly described as follows, to-wit:

> East Half of the Northwest Quarter, and the Northwest Quarter of the Northeast Quarter of Section 28; and the Southwest Quarter of the Southeast Quarter, and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof;

for the purpose of digging, drilling, prospecting and mining said land for uranium, lead, zinc, coal, asphaltum, and every kind of valuable mineral or ore, granting also to the party of the second part, his successors or assigns, the right to erect all necessary buildings and machinery on said land for the purpose of mining and dressing, crushing and cleaning ores thereon, and to remove the same at the expiration or forfeiture of this lease, except timbering and other improvements necessary to support the ground. All uses of the ground, not consistent with thorough and proper mining, as herein required, are hereby reserved to the said party of the first part.

This lease shall be and remain in full force for a period of two years from the date hereof and as long thereafter as production of any of the foregoing minerals and/or ores is had in sufficient commercial or paying quantities to provide a royalty to the party of the first part of not less than Seventy-five Dollars ($75.00) per month. It is understood and agreed that if at the end of said two year period ore and/or minerals are not being produced from said premises in sufficient quantities to provide the foregoing minimum royalty payment then this lease shall terminate and be null and void.

The said party of the second part, his successors and assigns, shall mine said land in a good, thorough and workmanlike manner, and shall keep all shafts and drifts well and securely timbered and supported, and shall not remove such timbers and supports so as to endanger the ground, or permit the same to cave or fall in. Mining shall be carried on in good faith, continuously, and shall not be suspended at any time to exceed forty days in any three successive calendar months, except on written permission of the said party of the first part. Delays caused by unavoidable accidents, or causes beyond the control of the party of the second part, are excepted.

The said party of the second part, his successors, and assigns, shall keep a correct account of all ores and/or minerals mined, the kind and weight thereof, to whom sold and the price received therefor, which books shall be open to the inspection of the party of the first part at all reasonable times.

The said party of the second part, his successors and assigns shall pay to the party of the first part, its successors and assigns, at Breese, Illinois, on the 15th day of each month a royalty in the amount of fifteen per cent (15%) of the gross market value of all ores and/or minerals mined or sold during the preceeding month with a statement showing the amount and kind of ores and/or minerals sold, to whom sold and the price received from same. Provided further that the party of the second part shall pay to the party of the first part a

minimum monthly rental of Seventy-five Dollars ($75.00) per month beginning third day of June, 1954.

It is further understood and agreed that at any time during the term of this lease the party of the first part or any of its officers, stockholders or anyone authorized by them, or either of them, may go upon the premises herein leased for the purpose of making an inspection or for any other purpose which is not prejudicial to the rights of the party of the second part.

Any failure upon the part of the party of the second part to comply with and perform the requirements of this lease in good faith shall terminate said lease and the party of the first part may, without any court proceedings of any kind or character, reenter upon and take possession of said premises and this lease shall be null and void.

IN WITNESS WHEREOF, THE said parties have hereunto set their hands and seals in duplicate, the day and year first above written.

RADIUM SPRINGS LAND COMPANY, INC.
(Party of the First Part)

By (signed) Roland A. Zirkel (SEAL)
President

ATTEST:

(signed) H. L. Diekemper
(Secretary)

(signed) Homer L. Burtner, Sr. (SEAL)
Party of the Second Part

STATE OF ILLINOIS)
) ss.
County of Clinton)

I, Ray Schlueter, a Notary Public in and for said county and State aforesaid, do hereby certify that Roland A. Zirkel, President, and H. L. Diekemper, Secretary of the Radium Springs Land Company, Inc., who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such President and Secretary, appeared before me this day in person and severally acknowledged that they signed, sealed and delivered the said instrument of writing as their free and voluntary act, and as the free and voluntary act of the said corporation for the uses and purposes therein set forth, pursuant to authority given by the Board of Directors of said corporation and caused the corporate seal of said corporation to be thereto attached.

Given under my hand and notarial seal this 3rd day of June, 1954.

(seal) (signed) Ray Schlueter
Notary Public

My commission expires: July 23, 1958.

STATE OF MISSOURI)
) ss.
County of Greene)

I, R. M. Corlett, a Notary Public in and for said County, in the State aforesaid, do hereby certify that Homer L. Burtner, Sr., personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

Given under my hand and seal this 11th day of June, 1954.

(seal) (signed) R. M. Corlett
Notary Public

My commission expires: July 29, 1955

BUFTNER'S Inc
Springfield Mo
1328 S. Fremont

This is to certify that chattel mortgage was duly filed in office of Recorder of Deeds of Barry County, Missouri at 11 o'clock 30 minutes this 11 day of June, 1954.

Billie Holman
Circuit Clerk & Ex-Officio
Recorder of Deeds.

State of Missouri) ss
County of Barry)

IN THE RECORDER'S OFFICE

I, Billie Holman, Circuit Clerk & Ex-Officio Recorder of Deeds within and for the County aforesaid, do certify that the instrument of writing hereto attached, with the certificate thereon was filed for record in said office on the 11 day of June, 1954, at 11 o'clock and 30 minutes A. M. and that the same is duly recorded in said office in Book 208 for recording at Page 7.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of my said office. Done at Cassville this 11 day of June, 1954.

Billie Holman
Circuit Clerk & Ex-Officio Recorder of Deeds

$3.50 pd.
Recording fee

COPY

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned Herbert Stratton and Lena Mai Stratton, his wife, of the County of Greene, in the State of Missouri, hereinafter referred to as Assignors, for and in consideration of the Assignee's compliance with the terms and conditions of a certain mining lease, including payment of rents as provided in said lease, such lease being dated June 3, 1954 and running from the Radium Springs Land Company, Inc., an Illinois corporation, of Breese, County of Clinton, Illinois, to Homer L. Burtner, of Springfield, Missouri, the same being recorded in Book 208, Page 7, in the Office of the Recorder of Deeds of Barry County, Missouri, and for the further consideration of the payment to the Assignors as additional royalty the amount of five (5%) percent of the gross market value of all ores and/or minerals mined or sold during the preceding month by the statement showing the amount and kind of ores and/or minerals sold, to whom sold and the price received for the same, such payment to be made on the 15th day of each month, does hereby sell, assign, transfer, set over and convey unto the Butler Hollow Mining Company, Inc., all of the said Herbert Stratton and Lena Mai Stratton's interest in such mining lease set out above in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof,

together with the rights incident thereto and the personal property thereon, appurtenant thereto, or used or obtained in connection therewith.

And for the same consideration the Assignors covenant with the Assignee, its or his heirs, successors or assigns: That the Assignors are the lawful owner of and have good title to the interest above assigned in and to said lease, estate, rights and property, free and clear from all liens, encumbrances or adverse claims; that said lease is a valid and subsisting lease on the land above described, and all rentals and royalties due thereunder have been paid and all conditions necessary to keep the same in full force have been duly performed; and that the Assignors will warrant and forever defend the same against all persons whomsoever, lawfully claiming or to claim the same.

It is further expressly understood by the parties hereto that the royalties set out above to be paid to the Assignors are in addition to the royalties made payable under the lease executed by the Radium Springs Land Company, Inc., to Homer L. Burtner.

Executed this 16th day of June, 1954.

(signed) Herbert S tratton

(signed) Lena Mai Stratton

STATE OF MISSOURI)
) ss
County of Greene)

On this 16th day of June, 19 54, before me, a Notary Public in and for said County, personally appeared Herbert Stratton and Lena Mai Stratton, his wife, to me known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Springfield, Missouri in said County and State, the day and year first above written.

(signed) Mary E. Spivy
Notary Public

(seal) My commission expires March 11, 1957.

C
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ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned E. J. GISSY, a single person xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxwife, of the County of Clinton, in the State of Illinois, hereinafter referred to as Assignors, for and in consideration of the Assignee's compliance with the terms and conditions of a certain mining lease, including payments of rents as provided in said lease, such lease being dated June 3, 1954 and running from the Radium Springs Land Company, Inc., an Illinois corporation, of Breese, County of Clinton, Illinois, to Homer L. Burtner, of Springfield, Missouri, the same being recorded in Book 208, Page 7, in the Office of the Recorder of Deeds of Barry County, Missouri, and for the further consideration of the payment to the Assignors as additional royalty the amount of five (5%) percent of the gross market value of all ores and/or minerals mined or sold during the preceding month by the statement showing the amount and kind of ores and/or minerals sold, to whom sold, and the price received for the same, such payment to be made on the 15th day of each month, does hereby sell, assign, transfer, set over and convey unto the Butler Hollow Mining Company, Inc., all of the said E. J. Gissy's and ______ ______ interest in such mining lease set out above in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Southeast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof,

together with the rights incident thereto and the personal property thereon, appurtenant thereto, or used or obtained in connection therewith.

And for the same consideration the Assignors convenant with the Assignee, its or his heirs, successors or assigns: That the Assignors are the lawful owner of and have good title to the interest above assigned in and to said lease, estate, rights and property, free and clear from all liens, encumbrances or adverse claims; that said lease is a valid and subsisting lease on the land above described, and all rentals and royalties due thereunder have been paid and all conditions necessary to keep the same in full force have been duly performed; and that the Assignors will warrant and forever defend the same against all persons whomsoever, lawfully claiming or to claim the same.

It is further expressly understood by the parties hereto that the royalties set out above to be paid to the Assignors are in addition to the royalties made payable under the lease executed by the Radium Springs Land Company, Inc., to Homer L. Burtner.

Executed this 16th day of June, 1954.

(signed) E. J. Gissy

____

STATE OF MISSOURI)
) ss
County of Greene)

On this ______ day of __________, 19____, before me, a Notary Public in and for said County, personally appeared E. J. GISSY, a single person xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx xxxxx, to me known to be the person__ described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Springfield, Missouri in said County and State, the day and year first above written.

(signed) Mary E. Spivy
Notary Public

(seal) My commission expires Marcy 11, 1957.

COPY

ASSIGNMENT OF MINING LEASE

KNOW ALL MEN BY THESE PRESENTS:

That the undersigned Homer L. Burtner, Sr. and Lucile Burtner, his wife, of the County of Greene, in the State of Missouri, hereinafter referred to as Assignors, for and in consideration of the Assignee's compliance with the terms and conditions of a certain mining lease, including payment of rents as provided in said lease, such lease being dated June 3, 1954 and running from the Radium Springs Land Company, Inc., an Illinois corporation, of Breese, County of Clinton, Illinois, to Homer L. Burtner, of Springfield, Missouri, the same being recorded in Book 208, Page 7, in the Office of the Recorder of Deeds of Barry County, Missouri, and for the further consideration of the payment to the Assignors as additional royalty the amount of five (5%) percent of the gross market value of all ores and/or minerals mined or sold during the preceding month by the statement showing the amount and kind of ores and/or minerals sold, to whom sold and the price received for the same, such payment to be made on the 15th day of each month, does hereby sell, assign, transfer, set over and convey unto the Butler Hollow Mining Company, Inc., all of the said Homer L. Burtner, Sr. and Lucile Burtner's interest in such mining lease set out above in the following described land in Barry County, Missouri, being more particularly described as follows, to-wit:

> East Half of the Northwest Quarter and the Northwest Quarter of the Northeast Quarter of Section 28 and the Southwest Quarter of the Southeast Quarter and three acres in the Northwest corner of the Southeast Quarter of the Sourtheast Quarter of Section 21, all in Township 21, Range 27, and containing in all 163 acres, more or less, according to the United States survey thereof,

together with the rights incident thereto and the personal property thereon, appurtenant thereto, or used or obtained in connection therewith.

And for the same consideration the Assignors covenant with the Assignee, its or his heirs, successors or assigns: That the Assignors are the lawful owner of and have good title to the interest above assigned in and to said lease, estate, rights and property, free and clear from all liens, encumbrances or adverse claims; that said lease is a valid and subsisting lease on the land above described, and all rentals and royalties due thereunder have been paid and all conditions necessary to keep the same in full force have been duly performed; and that the Assignors will warrant and forever defend the same against all persons whomsoever, lawfully claiming or to claim the same.

It is further expressly understood by the parties hereto that the royalties set out above to be paid to the Assignors are in addition to the royalties made payable under the lease executed by the Radium Springs Land Company, Inc., to Homer L. Burtner.

Executed this 16th day of June, 1954.

(signed) Homer L. Burtner, Sr.

(signed) Lucile Burtner

STATE OF MISSOURI)
) ss
County of Greene)

On this 16th day of June, 19 54, before me, a Notary Public in and for said County, personall appeared Homer L. Burtner, Sr. and Lucile Burtner, his wife, to me known to be the person s described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in Springfield, Missouri in said County and State, the day and year first above written.

(signed) Mary E. Spivy
Notary Public

(seal) My commission expires: March 11, 1957.

DEC 1
F9 67

BURTNER'S Inc
Springfield Mo
1328 S. Florence

ELKINS-SWYERS CO., SPRINGFIELD, MO.

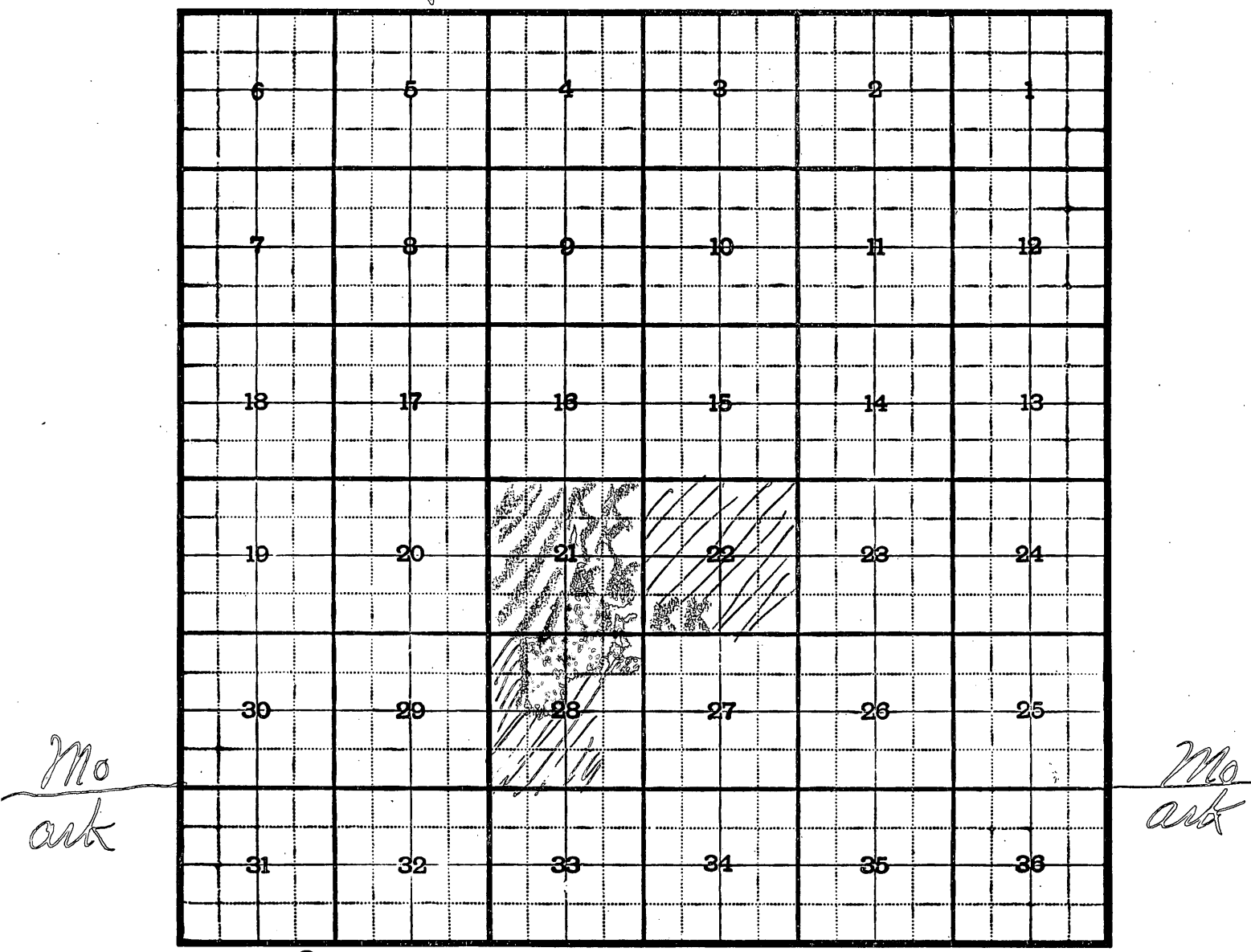
Form 86

4-A

TOWNSHIP PLAT

Township 21 North Range 27 west of 5th P. M.

County of Barry State of Mo & Ark



Land under lease

Kuhl Tract

Govt land which applicant has been Made

Govt land held under assigned lease.

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Springfield Mo
1328 S. Fremont

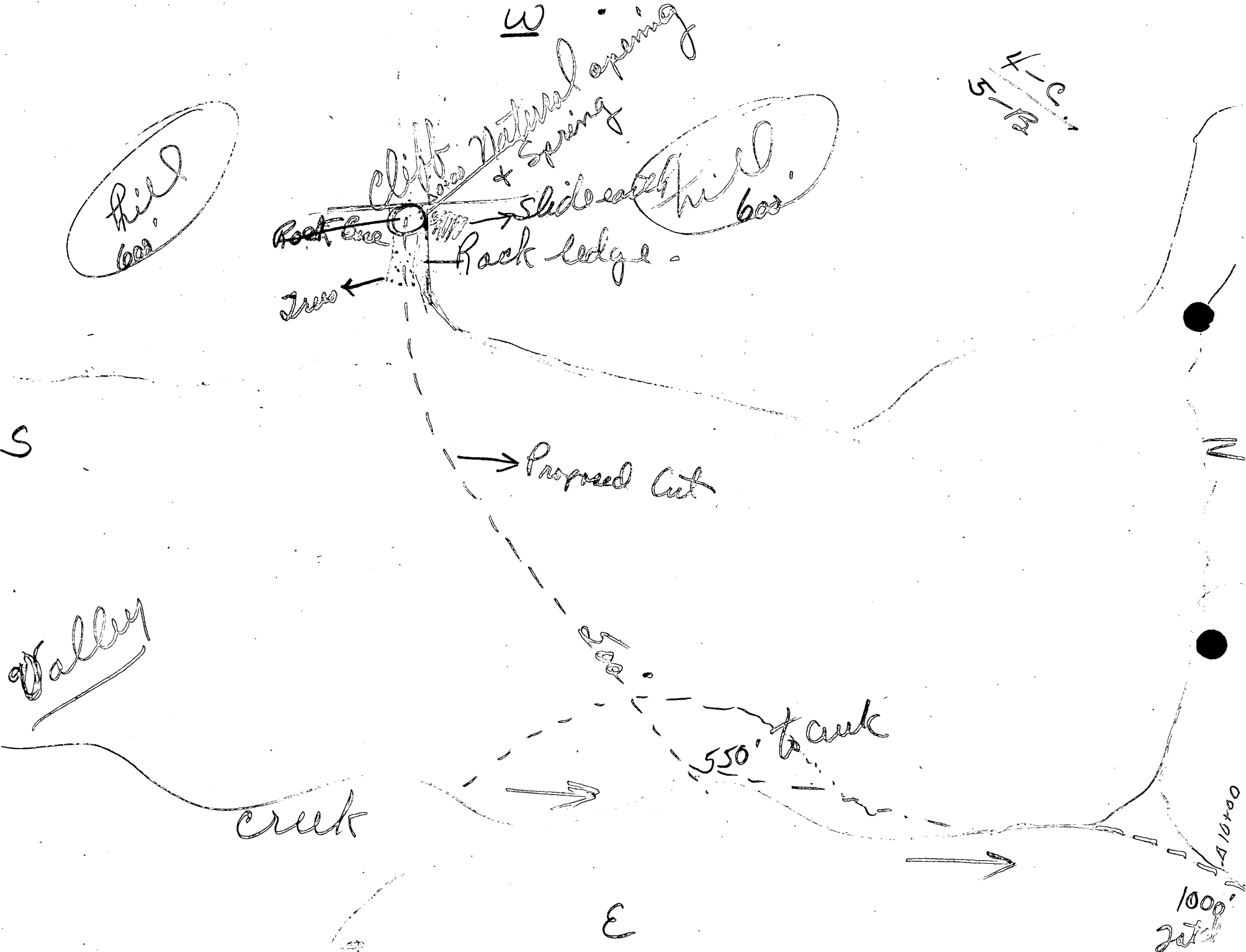
Insert.

4.A. Have done Bulldozing, dynamiting, pick and shovel work. and Excavating.
This property was worked several years ago by Logan Lieb and some German scientists about World War I. The openings they used were dynamited shut. The main entrance is now partially opened. It will require work as illustrated by are this job can be completed.
H.L. Barber has spent approx. $10,000.00 this last summer on excavating by bulldozer, Blasting Pick and Shovel in effort to drain and gain access to an extreme to the subterranean caverns. Following an unprecedented 2 year drought, he was able to inspect about 1600 ft. of the underground passages. at the time last February when he discovered the air. then the underground stream rose. blocking the passage and the excavation work was begun. Work was stopped in Oct. 1954. when heavy rains came and the applicant was temporarily hurt. Mr Logan Lieb and German scientists did remove some radio active ore to be shipped to Germany but could not get the ore out of the U.S. due at one time he able to bring out a small amount of ore. as a sample. The Radon at Helium Gas in Caverns.

See Technical World Magazine January 1913 Page 523.

BURTNER'S

Springfield Ills
1328 S. Fleming


W
Natural opening & Spring
Cliff
Hill 600'
Hill 600'
Slide area
Rock ledge
Trees
S
Proposed Cut
Valley
Creek
550'
Creek
E
N
1000'

BURTNER'S Inc
Springfield Mo
1.32 J. J. Turner

4. B. (a) No current Production and not record of exactly how much was taken out Previously. (as reserves) was able during drought on two occasions only to penetrate far enough under this mountain to come in contact with ore. In my opinion there are thousands of tons of ore in sight. ~~but~~ lots of Gas and bad air trapped behind water & mud. This Ore all looks like Pitchblend was able to bring out only small amount.

4(C) The mountain is made up of limestone and sandstone rock. the interior (that is now flooded) consists of numerous Underground caverns and passageways. and the work outlined we will be able to drain these caverns by Gravity. we have tried pumps. and at 60,000 gal an hour and over a period of 7 days (24 hrs) pitchday could not lower the water enough to gain entrance.

(2) (Type of deposit) Pitchblend both vein & Bedded.

(3) By removing enough earth according to attached plan water will drain and we will be able to get back to ore. Before this was flooded out & Valley filled the bottom was 16' lower than at Present. We want to go 18' below present.

ore samples attached.

BURTNER'S Inc
Springfield Mo
1328 S. Fremont

4(E) Local labor available. Any necessary material especially at present, available locally.

Railroad within half mile. Will build siding

Shipping point unknown. Plenty of water.

Power line within 2. miles.

4.(d.) County road ½ mile from project, also good entrance road.

(5.d.) over 50% of proposed work will be done by contract. (see attached work sheet) The balance will be handled by H.L. Bunter and necessary experienced help.

6.(a) Earth moving contract est.

91.00 cu. yd. @ $1.00 — $91.00.00

(b.) Engineering & Consulting service — 750.00

Sampling & Mapping.

Labor. helpers & muckers. 480 hr @ 2.00 — 960.00

Supervision 60 days — 800.00

Powder man. (Expert) 100 hr. @ 3.00 — 300.00

Sampling & analysis. 20 @ 7.50. — 150.00

(c) Compressor rental. 20.00 per day — 100.00

Line and Bits.

Light plant rental. Wiring & lamps. 60 days. — 450.00

(d) will rent air compressor @ 20.00 per day. on line and bits only.

BURTNER'S Inn
Springfield Mo
1 3 8 - S. Florence

Cont.

(B) will rent light plant. 110 - 220 AC - 10 KW. at 10.00 per day. Can use Elec drill from this plant if necessary. Hand tools we have.

(C) No water or fuel problem. Other items such as.

Emergency lights Kero lanterns. 10 @ 2.50 ea.	25.00
Waders. Rubber 4 suits @ 25.00	100.00
Helmets 10 @ 2.50	25.00

(D) Contractor furnishes dozers, draglines, and all necessary earth moving equip. to be paid for with contract @ 1.00 per cu. yd.

(E) Do not have any thing under this heading.

(F) Nothing under this heading.

(G) Insurance - Liability - 180 days @ 3.00	540.00
Workmen Compensation (Est)	200.00
Bookkeeping + records.	400.00
(H.) dynamite (20 cases 50 lbs per. 14.00 per case.	280.00
200 Elec Caps. @ .22 ea.	44.00

BURTNER'S Inc
Springfield Mo
13 W S. Thurman

Estimated Costs of Unite

(1)	Earth moving. (contract est) Mc Fean Const Co. 9100 cu. yd. @ 1.00	$9100.00
(2)	Engineering and Consulting service. Sampling and Mapping.	750.00
(3)	Labor, helpers, muckers. 480 hrs @ 2.00	960.00
(4)	Superinten 60 days.	800.00
(5)	Powder man. (Expert) 100 hrs @ 3.00	300.00
(6)	Sampling + Analysis. 20 ea @ 7.50	150.00
(7)	Compressor rental Lines and Bits.	100.00
(8)	Light plant rental, Wiring + lamps. 60 day.	450.00
(9)	Emergency + Kerosene lights 10 @ 3.50	35.00
(10)	Waders (Rubber) 4 suits @ 25.00	100.00
(11)	Helmets 10 @ 2.50 ea	25.00
(12)	Insurance. Liability 180 days @ 3.00	540.00
(13)	Workmans Compensation. (Est)	300.00
(14)	Bookkeeping + records.	400.00
(15)	Dynamite + Caps. Etc.	324.00
	Total.	13,134.00

BURTNER'S Inc
Springfield Mo
13 H.S. Florence

7.(b) My Jim will be given no chg.
We have necessary tools & Mud
Pumps & motors. Track. Truck
Will be able to expedite this job
Our time & Tools will equal more
than 25% but will also furnish
Money if necessary.

H. L. B.

BURTNER'S Inc
Springfield Mo
1328 S. Fremont

ESTIMATE

McLEAN CONSTRUCTION COMPANY

SPRINGFIELD, MISSOURI

Date 12/9/54

Architect or Engr. _____ Job _____

QUANTITY	B M #100.00 Assumed		
Station		Present Grade	Proposed Grade
0 + 00	Entrance to cave	95.70	77.70
0 + 50		95.20	77.28
1 + 00		90.50	76.70
1 + 50		87.40	76.20
2 + 00		85.70	75.70
2 + 50		85.50	75.20
3 + 00		84.90	74.70
3 + 50		84.10	74.20
4 + 00		83.50	73.70
4 + 50		82.00	73.20
5 + 00		81.00	72.70
5 + 50	Bank of Stream	79.40	72.20
6 + 00	Channel	76.50	71.70
6 + 50		76.00	71.20
7 + 00		74.70	70.70
7 + 50		74.30	70.20
8 + 00		73.70	69.70
8 + 50		71.70	69.20
9 + 00		70.00	68.70
9 + 50		68.50	68.20
10 + 00		67.60	67.70
	Proposed finished grade - 1 %		

BURTNER'S Inc
Springfield Mo
632 S. Florence

McLean Construction Co.
CONTRACTORS
SPRINGFIELD, MISSOURI
P. O. BOX 205
PHONE ~~xxxxxxxx~~ 4-7344
1846 E. SUNSHINE

December 9, 1954

Mr. H. L. Burtner,

In connection with the proposed excavation for a channel from the mouth of the cave to a point approximately 1000 feet in the existing stream bed:

We propose to excavate and dispose of material as follows:

Approximately 4400 cubic yards from the mouth of the cave, east 200 feet, including necessary work on slides and present stock piles, approximately 4700 cubic yards from the above described location to the low point in the stream bed, including all necessary clearing - for the sum of $1.00 per cubic yard.

In the event it is necessary to move solid rock, we propose to rent our compressor, drills, tools, etc., for $20.00 per day. You are to furnish all labor, blasting materials, etc.

We checked the grades on the proposed channel, and find that it will be necessary to cut 18 feet deep at the mouth of the spring, and at a 1% grade, the channel will be approximately 1000 feet long, terminating in the existing stream bed.

Yours very truly,

McLEAN CONSTRUCTION COMPANY

Harold Crowder

Harold Crowder

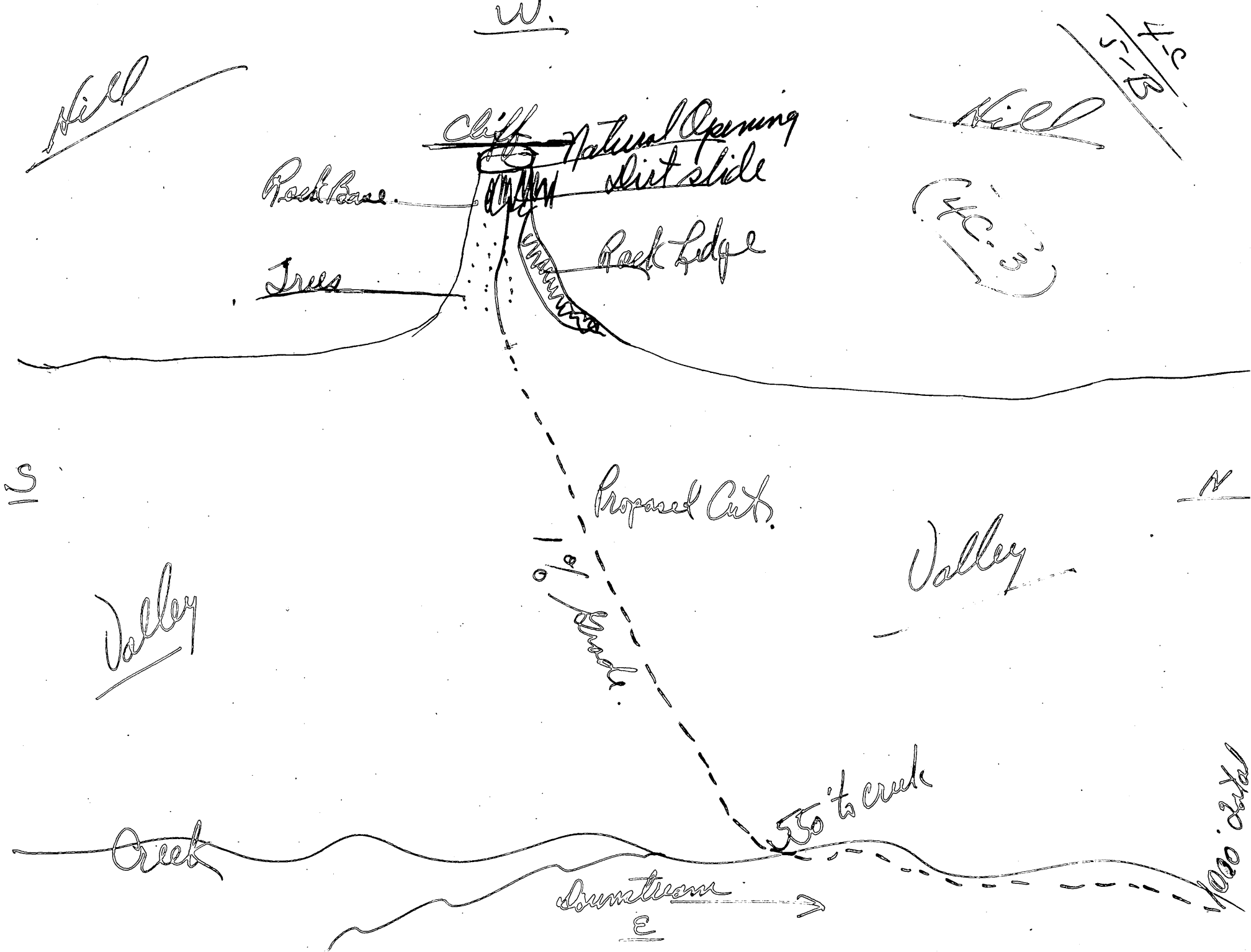
HC/hv

BURTNER'S Inc
Springfield Ma
138 S. Flower

OFFICIAL BUSINESS

U. S. Bureau of Mines
420 Custom House
555 Battery Street
San Francisco 11, California

Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.


W.
Hill
Cliff
Natural Opening
Dirt slide
Rock Base
Rock Ledge
Trees
Hill
Fig. 3
S
N
Proposed Cut.
Valley
Valley
Creek
550' to creek
1000' total
Downstream
E

BURTNER'S

Springfield Mo
1368 S. Florence

DEC 12 1996
F9 67

BURTNER'S Inc
Springfield Mo
1328 S. Florence