DMA Form 1.

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2971

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.

One copy to USGS. AND TO USBM. One copy of application retained in Region VI.

Routing Slip

To:	Code 400, Room 3538	Date	4/7/53
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DO NOT DETACH

CONTROLLED DOCUMENT

400

APR 23 1953

2971-
mn

Mr. O. H. Morse
P. O. Box 293
Steele, Missouri

Re: Docket No. DMA 2971 - Manganese
O. H. Morse
NW ¼ of the NW ¼, Sec. 13;
T. 14 N.; R. 7 W.
Independence County, Arkansas

Dear Mr. Morse:

Your application for exploration assistance on the subject property and other data available to us in Washington have been carefully reviewed.

The exploration program proposed in your application was to consist of five north-south trenches on 220-foot centers across the referenced 40-acre tract. These trenches were to be excavated by a one cubic yard dragline.

This program is not considered suited to either the geology of the ore deposits or the topography of the area. From data available here, we believe that only a portion of the west half of the area may be regarded as favorable for manganese-bearing clay of the Westmoreland type. Because your suggested program is on a scale that should be classified as development, it does not come under the Defense Minerals Exploration Program (see DMA Order-1).

An exploration project is defined in DMA Order which limits assistance to exploration programs and excludes development programs by the following prohibition:

"This work shall not go beyond a reasonable delineation and sampling of the ore, and shall not include work prosecuted primarily for mining or preparation for mining." Exploration of a deposit of this type should consist of churn drilling or test pitting.

Such a program has already been completed on properties controlled by Westmoreland Manganese Company and has indicated the presence of a substantial tonnage of manganese-bearing clay. Metallurgical investigations are now in progress to determine whether this material can be treated economically to yield a satisfactory product.

until these tests are completed and unless the tests produce a satisfactory metallurgical process further exploration by the Government is unwarranted in areas where we can expect to find only similar deposits of material which cannot be classed as ore by present standards.

Under the circumstances, we regret to advise that we are unable to approve a project for the exploration of your property. However, if at some future date the metallurgy of manganese deposits of this type is satisfactorily solved, we shall be glad to consider a revised application for assistance to explore for additional reserves of this type of material. If such request is made by you, please refer to the subject docket.

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. Mittenderf

Administrator

Enclosure

FAHutledge:foc
4-22-53
cc: Docket
Code 400
Adm. Reading File
FT, Reg. VI
Mr. Melcher, USBM
Mr. Crittenden, USGS
Operating Committee

460

Administrator, DMEA 4-17-53

Iron and Ferro-Alloys Division, DMEA

Denial of exploration project in the amount of $33,550.00
Docket No. DMEA 2971 - Manganese
O. M. Morse
NW ¼ NW ¼ Sec. 13; T. 14 N.; R. 7 W.
Independence County, Arkansas

The denial of the subject application by this Division is based on the following information:

(1) The application is poorly prepared and does not consider either the geology of the ore deposits or the local topography. If trenching were to be considered, the trenches should be across the course of the rounded ridge top and not parallel as proposed. Mapping by the Geological Survey indicates that the west half only of the area may contain manganese deposits.

(2) The expected deposits will be similar to those already explored on land controlled by Westmoreland Manganese Company. Until it has been proven that such material can be treated to yield a satisfactory product, additional exploration for this type of manganese deposits is unwarranted.

(3) The Commodity Division of the Geological Survey recommends denial of the application.

(4) The Commodity Division of the Bureau of Mines concurs with denial of the subject application.

W. S. Martin

W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

FARutledge/foc
4-17-53
cc: Docket
Admr. Reading File
Code 400
Operating Committee

IN REPLY REFER TO:

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

400

April 13, 1953

Memorandum

To: Mr. W. S. Martin

From: Max D. Crittenden

Subject: MLA-2971 (Manganese)
O. N. Morse, Steele, Missouri
Property in Batesville District, Arkansas

The property

The applicants are lessees of a 40 acre tract constituting the NW 1/4 of the NW 1/4, S. 13, T. 14 N., R. 7 W., in Independence County, Arkansas. This is in the central part of the Batesville district, about 2½ miles southeast of the site of the mining operation of the Westmoreland Manganese Company.

The proposal

The applicants have laid out a plan to explore the entire tract by a series of 5 trenches spaced at 220-foot intervals. They are to be dug in a N-S direction, and run the full length of the property without regard for topography or geology. The work is estimated to involve about 140,000 cubic yards of excavation using a drag line owned by the applicant, and charged at the rate of $12.50 per hour, including supervision, assaying and other items. The total cost is estimated at $33,550.

Geology

The location of trenches is indicated on a plot of the tract made by W. D. Cobb, engineer. The geology shown thereon is taken from the map folded in the pocket of U. S. Geological Survey Bulletin 921-a by H. D. Miser, 1940.

This map was revised in the course of detailed study and exploration in the area during World War II, by D. M. Kinney and T. A. Hendricks of the Geological Survey, and published as Mineral Field Studies map, MF-1, 1950. This work shows that the entire tract is underlain by Plattin limestone, the Fernvale having been removed by solution. However, an unpublished detailed map on a scale of 833 feet to the inch, a part of which is reproduced as Fig. 1, shows that the west half of the tract is covered by residual clay derived from the Fernvale limestone, but that most of the east half is in a steep ravine and is underlain by Plattin limestone at a shallow depth.

Actually, only the relatively flat areas (colored red on Fig. 1) are favorable for hard ores.

In view of this, and of the topography to be traversed, the system of trenches proposed by the applicant appears to be very impractical. At most, assuming that trenching were the most practical method of exploration, a series of short trenches cutting across the course of the rounded ridge top would appear to be more logical. Actually, churn drilling or test pitting should be done as a first step in any case.

Although part of the area under lease by the applicant appears to be geologically favorable for the occurrence of hard ores, the applicant has given no indication whether he proposes to mine the hard ores by hand-dug vertical shafts, as has been done in the past, or whether he proposes to use some large-scale means of operation similar to that proposed by Westmoreland Manganese Company.

Recommendation

The ore zone on this property is similar to that at the Southern Hill, Polk-Southard-Turner and Page properties controlled by Westmoreland Manganese Company, where exploration under contracts DMA-E8 and 1-dm;E139 indicated the presence of 3 to 5 million tons of ore-bearing clay averaging 5-6 per cent manganese. So far it remains uncertain whether this material can be made to yield a satisfactory product. Until this has been demonstrated, I question the value of exploring for more. This policy should be decided on a district-wide basis.

Max D. Crittenden
mc

Max D. Crittenden, Jr.

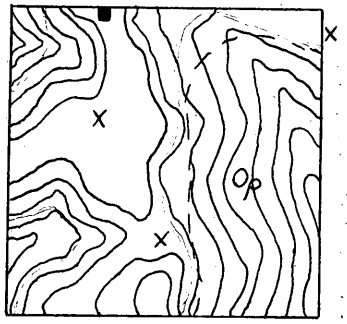

Figure 1 - Topographic and geologic map of NW¼ NW¼ T. 14 N., R. 7 W. Independence County, Arkansas

Scale 833' equals 1", Contour Interval - 20'

Explanation -

Area to left of - - - - line covered by residuum

Op area of Plattin limestone outcrop.

▭ Area regarded as favorable for manganese ore clay of Westmoreland type.

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UNITED STATES

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

JOPLIN, MISSOURI

Demca 2971

April 3, 1953

Mr. O. N. Morse
Steele, Missouri

Dear Mr. Morse:

I received your completed DMEA application forms this morning by registered mail. After checking your application, I have taken the liberty of inserting the following line at the bottom of Question 6 (b) on your supplementary statement "Total Project Cost = $167.75 (cost per day) x 200 days = $33,550.00.

I did not notice any other additions or corrections to be made. I am, therefore, forwarding your application to the Operating Committee of DMEA in Washington for their consideration. You will undoubtedly hear from the Operating Committee in due time.

Sincerely yours,

W. P. Williams
Executive Officer
Field Team, Region VI

WPW:jd

cc - Operating Committee

dmea 2971

402

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Joplin, Missouri
April 3, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 6 1953

Memo

To: Operating Committee, DMEA

From: W. P. Williams, Executive Officer, Field Team Region VI

Subject: DMEA application, O. N. Morse, Steele, Missouri

Transmitted herewith are the original and two completed copies of DMEA application forms MF-103 with supplementary statements, sketch maps, and one photostatic copy of a mining lease covering the subject property.

This application was submitted to this office and we are retaining one copy of the application for our files.

W. P. Williams
Executive Officer

WPW:jd
Encs.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED

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

Not to be filled in by applicant

Docket No. dmea 2971
Metal or Mineral
Date Received 4-6-53
Estimated Cost
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: O. N. Morse (Individual)
P. O. Box 293
Steele, Missouri.

(*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. Not Applicable

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. Not Applicable

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Not Applicable

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

(*b*) State any mine name by which the property is known. No Mine Name

(*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 Transmitted Herewith

(*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. Statement attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. No past or Current Production

(*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. Statement Attached

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Manpower, Materials, Supplies, Equipment, Water and Power are all available at the subject Porperty

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Exploration minerals will include-Rhodochrosite, Psilomelane, Haysmannite, Braunite, Manganite and Pyrolusite

(*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. Statement Attached

(*c*) The work will start within 30 days and be completed within 12 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. Statement Attached

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.). None - No independent contracts

(*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. Labor, Supervision, Consultants Statement Attached

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See 6 (b) Statement attached

(*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. Statement Attached

(*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. No Rehabilitation or repairs

(*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. Statement Att.

(*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. See 6 (b) Attached

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. See 6 (b) Attached

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 March 31, 1953

O. N. Moore
(Applicant)

By

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

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

O. N. Morse
P. O Box 293
Steele, Missouri.

4 (a) No Mining operations have been conducted upon the subject property, Hand trenching on surface has disclosed Maganese mineralization on the property.

4 (c) Surface formations on the subject property are composed of the Fernuale, Kimmswick, and Plattin Limestones, all of Ordivician age, The rock strata have low regional dips to the south, but minor flexures are superimposed on the regional dips, Magnanese ores result from the weathering and decomposition of the Fernuale limestone Lenticular manganese carbonate - oxide ore bodies consist of manganese carbonate, psilomelane, housmannite, braunite, Manganite, and pyrolusite. The following report is cited, covering the property: U. S. Geological Survey Bulletin 921-A; Manganese Carbonate in the Batesville District, Arkansas; H. D. Miser, 1940.

Reason for wishing to explore are that surface indications and hand trenching show the presence of manganese ore minerals. The subject property is also located within a district where active manganese mining has been and is now being done

4 (d) County maintained all-weather road passes within a quarter of a mile from the property. Closest shipping, supply, and residence point is Cushman, Arkansas. Missouri Pacific railroad spur comes to Cushman.

5 (b) It is proposed to explore the subject property for manganese ore by means of a one cubic yard capacity drag line excavator (Lima, Paymaster Model) it is proposed to excavate five Parallel trenches across the 40-acre tract, the trenches will be thus 220 feet apart, see enclosed sketch showing plan and typical trench section proposed. For purpose of calculation it is assumed that the trenches will average about 30 feet in depth

There are no present mine workings.

The proposed trenches will cut across geologic strata on the property; will cut vertically through any overburden present; and will expose any manganese ore present.

5 (d) The applicant has had a successful background of experience consisting of 6 years of general contracting in earthmoving and excavation. The applicant will supervise the operations

6 (b) Labor, Supervision, Consultants.
1 trench (1320 ' x 30') = 27,866 Cu. Yds.
5 trenches (1320' x 30') = 139,330 Cu. Yds
Approx. 200 working days to complest @ 10 Hrs per day.

Estimate of costs per day.

Rental of drag line (10 hrs @ 12.50)	$ 125.00
Supervision, Assays, Surveying, Materials and supplies	27.50
Contingencies (10% of above)	15.25
Total Estimated cost per day	$ 167.75

Total Project Cost = $167.75 (cost per day) X 200 days = 33,550.00 W.P.W.

6 (d) Drag line will be furnished by applicant, for a rental price of $12.50 per hour.

6 (f) No Buildings, Improvements, Installations.

area comes to Shaw mine

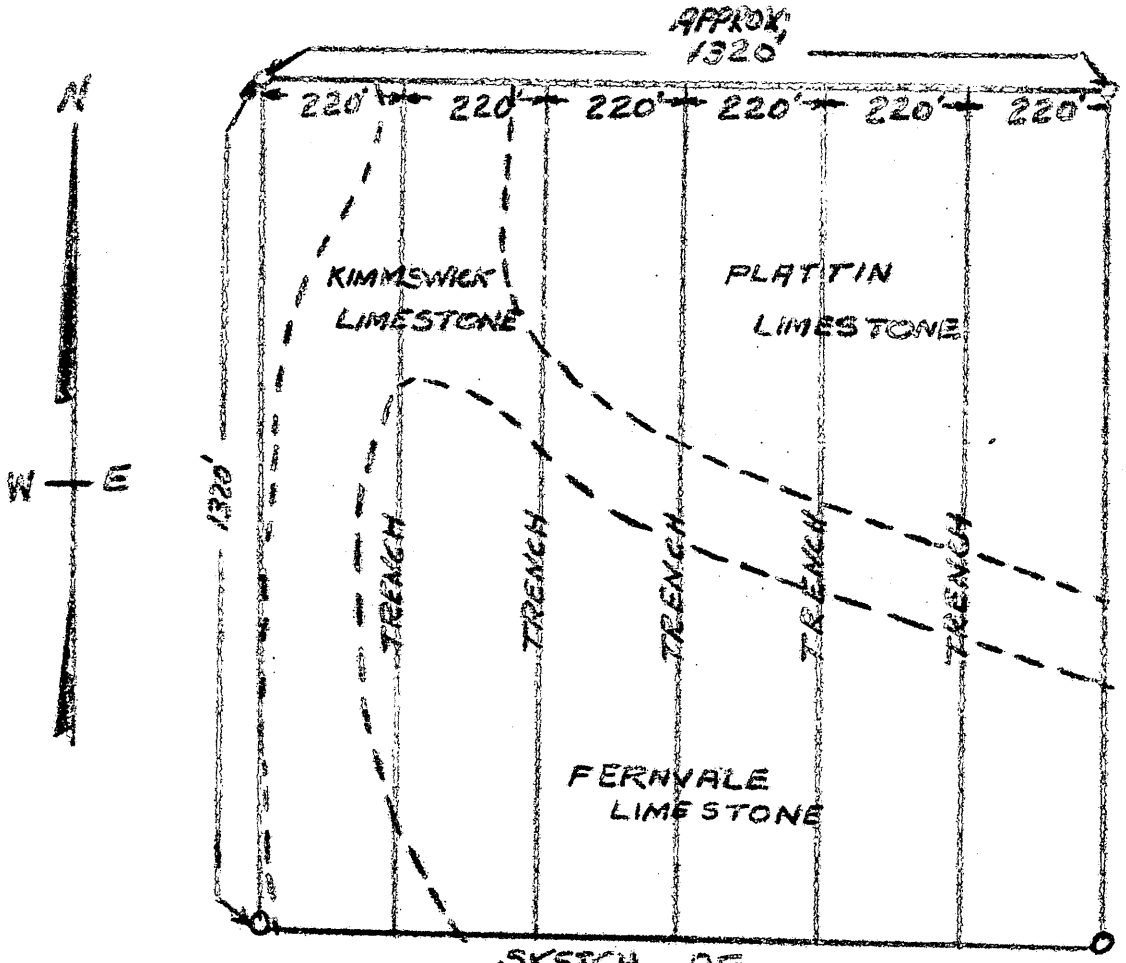
dnea 2971

W. D. COBB

CIVIL ENGINEER

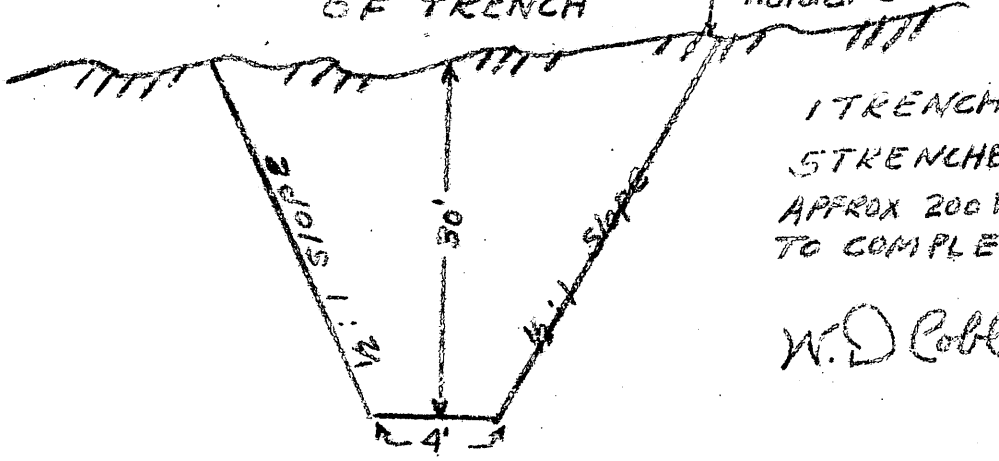
HOME PHONE 822 | P. O. BOX 401 | OFFICE PHONE 2261

BLYTHEVILLE, ARKANSAS



SKETCH OF
NW¼ OF THE NW¼
SECTION 13, T14N, R7W
INDEPENDENCE COUNTY, ARK.

TYPICAL SECTION OF TRENCH



1 TRENCH: 27,866 Cu. Yds.
5 TRENCHES = 139,330 Cu. Yds.
APPROX 200 WORKING DAYS
TO COMPLETE @ 10 Hrs. Per Day.

W. D. Cobb

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

400

Mr. O. N. Morse
P. O. Box 293
Steele, Missouri

Re: Docket No. DMEA 2971 - Manganese
O. N. Morse
NW ¼ of the NW ¼, Sec. 13;
T. 14 N.; R. 7 W.
Independence County, Arkansas

Dear Mr. Morse:

Your application for exploration assistance on the subject property and other data available to us in Washington have been carefully reviewed.

The exploration program proposed in your application was to consist of five north-south trenches on 220-foot centers across the referenced 40-acre tract. These trenches were to be excavated by a one cubic yard dragline.

This program is not considered suited to either the geology of the ore deposits or the topography of the area. From data available here, we believe that only a portion of the west half of the area may be regarded as favorable for manganese-bearing clay of the Westmoreland type. Because your suggested program is on a scale that should be classified as development, it does not come under the Defense Minerals Exploration Program (See DMEA Order-1).

An exploration project is defined in that order which limits assistance to exploration programs and excludes development programs by the following prohibition:

"The work shall not go beyond a reasonable delineation and sampling of the ore, and shall not include work prosecuted primarily for mining or preparation for mining." Exploration of a deposit of this type should consist of churn drilling or test pitting.

Such a program has already been completed on properties controlled by Westmoreland Manganese Company and has indicated the presence of a substantial tonnage of manganese-bearing clay. ~~averaging nearly 6 percent manganese.~~ Metallurgical investigations are now in progress to determine whether this material can be treated economically to yield a satisfactory product. Until these tests are completed

and unless the tests produce a satisfactory metallurgical process further exploration by the Government is unwarranted in areas where we can expect to find only similar deposits of material which cannot be classed as ore by present standards.

Under the circumstances, we regret to advise that we are unable to approve a project for the exploration of your property. However, if at some future date the metallurgy of manganese deposits of this type is satisfactorily solved, we shall be glad to consider a revised application for assistance to explore for additional reserves of this type of material. If such request is made by you, please refer to the subject docket.

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

Sincerely yours,

Administrator

Enclosure

FILE COPY
SURNAME:

400

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

Rutledge
Martin
Gaby
Wilbel
Hedges
Rutledge
Hollenward

APR 23 1953

Mr. O. N. Morse
P. O. Box 293
Steele, Missouri

Re: Docket No. DMEA 2971 - Manganese
O. N. Morse
NW ¼ of the NW ¼, Sec. 13;
T. 14 N.; R. 7 W.
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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. Mittenderf (fw)

Administrator

Enclosure

FARutledge:foc
4-22-53
cc: Docket
Code 400
Adm. Reading File
FT, Reg. VI
Mr. Melcher, USBM
Mr. Crittenden, USGS
Operating Committee

FILE COPY
SURNAME:

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

4-17-53

Rutledge
Graf
Martin

Iron and Ferro-Alloys Division, DMEA

Denial of exploration project in the amount of $33,550.00
Docket No. DMEA 2971 - Manganese
O. N. Morse
NW ¼ NW ¼ Sec. 13; T. 14 N.; R. 7 W.
Independence County, Arkansas

The denial of the subject application by this Division is based on the following information:

(1) The application is poorly prepared and does not consider either the geology of the ore deposits or the local topography. If trenching were to be considered, the trenches should be across the course of the rounded ridge top and not parallel as proposed. Mapping by the Geological Survey indicates that the west half only of the area may contain manganese deposits.

J.C. 4/23/53

(2) The expected deposits will be similar to those already explored on land controlled by Westmoreland Manganese Company. Until it has been proven that such material can be treated to yield a satisfactory product, additional exploration for this type of manganese deposits is unwarranted.

(3) The Commodity Division of the Geological Survey recommends denial of the application.

(4) The Commodity Division of the Bureau of Mines concurs with denial of the subject application.

W. S. Martin

W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

FARutledge/foc
4-17-53
cc: Docket
Admr. Reading File
Code 400
Operating Committee

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA DATE: 4-17-53

FROM : Iron and Ferro-Alloys Division, DMEA

SUBJECT: Denial of exploration project in the amount of $33,550.00
Docket No. DMEA 2971 - Manganese
O. N. Morse
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 13; T. 14 N.; R. 7 W.
Independence County, Arkansas

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(4) The Commodity Division of the Bureau of Mines concurs with denial of the subject application.

WSMartin
W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

Idaho Sheet 1

IN REPLY REFER TO:

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

April 13, 1953

Memorandum

To: Mr. W. S. Martin

From: Max D. Crittenden

WSM

Subject: IMEA-2971 (Manganese)
O. N. Morse, Steele, Missouri
Property in Batesville District, Arkansas

The property

The applicants are lessees of a 40 acre tract constituting the NW 1/4 of the NW 1/4, S. 13, T. 14 N., R. 7 W., in Independence County, Arkansas. This is in the central part of the Batesville district, about 2½ miles southeast of the site of the mining operation of the Westmoreland Manganese Company.

The proposal

The applicants have laid out a plan to explore the entire tract by a series of 5 trenches spaced at 220-foot intervals. They are to be dug in a N-S direction, and run the full length of the property without regard for topography or geology. The work is estimated to involve about 140,000 cubic yards of excavation using a drag line owned by the applicant, and charged at the rate of $12.50 per hour, including supervision, assaying and other items. The total cost is estimated at $33,550.

Geology

The location of trenches is indicated on a plot of the tract made by W. D. Cobb, engineer. The geology shown thereon is taken from the map folded in the pocket of U. S. Geological Survey Bulletin 921-a by H. D. Miser, 1940.

This map was revised in the course of detailed study and exploration in the area during World War II, by D. M. Kinney and T. A. Hendricks of the Geological Survey, and published as Mineral Field Studies map, MF-1, 1950. This work shows that the entire tract is underlain by Plattin limestone, the Fernvale having been removed by solution. However, an unpublished detailed map on a scale of 833 feet to the inch, a part of which is reproduced as Fig. 1, shows that the west half of the tract is covered by residual clay derived from the Fernvale limestone, but that most of the east half is in a steep ravine and is underlain by Plattin limestone at a shallow depth.

Copy retained 400

Actually, only the relatively flat areas (colored red on Fig. 1) are favorable for hard ores.

In view of this, and of the topography to be traversed, the system of trenches proposed by the applicant appears to be very impractical. At most, assuming that trenching were the most practical method of exploration, a series of short trenches cutting across the course of the rounded ridge top would appear to be more logical. Actually, churn drilling or test pitting should be done as a first step in any case.

Although part of the area under lease by the applicant appears to be geologically favorable for the occurrence of hard ores, the applicant has given no indication whether he proposes to mine the hard ores by hand-dug vertical shafts, as has been done in the past, or whether he proposes to use some large-scale means of operation similar to that proposed by Westmoreland Manganese Company.

Recommendation

The ore zone on this property is similar to that at the Southern Hill, Polk-Southard-Turner and Page properties controlled by Westmoreland Manganese Company, where exploration under contracts IMA-E8 and 1-dm;E139 indicated the presence of 3 to 5 million tons of ore-bearing clay averaging 5-6 per cent manganese. So far it remains uncertain whether this material can be made to yield a satisfactory product. Until this has been demonstrated, I question the value of exploring for more. This policy should be decided on a district-wide basis.

Max D. Crittenden
mc

Max D. Crittenden, Jr.

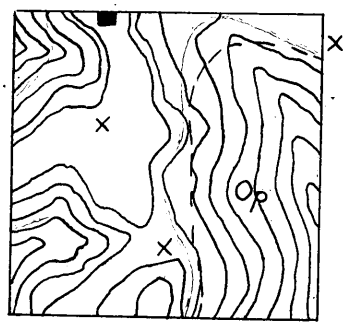


Figure 1 - Topographic and geologic map of NW¼ NW¼ T. 14 N., R. 7 W. Independence County, Arkansas

Scale 833' equals 1", Contour Interval - 20'

Explanation -

Area to left of - - - - line covered by residuum

Op area of Plattin limestone outcrop.

Area regarded as favorable for manganese ore clay of Westmoreland type.

April 7, 1953

Mr. O. N. Morse
P. O. Box 293
Steele, Missouri

Subject: DMEA-2971
Re: Exploration Assistance

My dear Mr. Morse:

The receipt of your application dated March 31, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2971 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2971 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

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

April 7, 1953

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 - 2971 O. N. Morse

ROBERT E. ADAMS

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

38226

dmea 2971

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Joplin, Missouri
April 3, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 6 1953

Memo

To: Operating Committee, DMEA

From: W. P. Williams, Executive Officer, Field Team Region VI

Subject: DMEA application, O. N. Morse, Steele, Missouri

Transmitted herewith are the original and two completed copies of DMEA application forms MF-103 with supplementary statements, sketch maps, and one photostatic copy of a mining lease covering the subject property.

This application was submitted to this office and we are retaining one copy of the application for our files.

W. P. Williams

W. P. Williams
Executive Officer

WPW:jd
Encs.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED

APR 6 1953

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

Not to be filled in by applicant

Docket No. dmea 2971
Metal or Mineral
Date Received 4-6-53
Estimated Cost
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: O. N. Morse (Individual)
P. O. Box 293
Steele, Missouri.

(*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. Not Applicable

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. Not Applicable

(*d*) If a partnership, add to the above statement the names and addresses of all partners. Not Applicable

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

(*b*) State any mine name by which the property is known. No Mine Name

(*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 Transmitted Herewith

(*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. Statement attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. No past or Current Production

(*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. Statement Attached

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

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Manpower, Materials, Supplies, Equipment, Water and Power are all available at the subject Porperty

16-66551-1

5. *The exploration project.*—(*a*) [redacted]te the mineral or minerals for which you w[redacted]o explore Exploration minerals will Include-Rhodochrosite, Psilomelane, Haysmannite, Braunite, Manganite and Pyrolusite

(*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. Statement Attached

(*c*) The work will start within 30 days and be completed within 12 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. Statement Attached

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.). None - No independent contracts

(*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. Labor, Supervision, Consultants Statement Attached

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See 6 (b) Statement attached

(*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. Statement Attached

(*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. No Rehabilitation or repairs

(*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. Statement Att.

(*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. See 6 (b) Attached

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. See 6 (b) Attached

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 March 31, 1953

O. K. Moore
(Applicant)

By

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

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

O. N. Morse
P. O Box 293
Steele, Missouri.

4 (a) No Mining operations have been conducted upon the subject property, Hand trenching on surface has disclosed Maganese mineralization on the property.

4 (c) Surface formations on the subject property are composed of the Fernuale, Kimmswick, and Plattin Limestones, all of Ordivician age, The rock strata have low regional dips to the south, but minor flexures are superimposed on the regional dips, Magnanese ores result from the weathering and decomposition of the Fernuale limestone Lenticular manganese carbonate - oxide ore bodies consist of manganese carbonate, psilomelane, housmannite, braunite, Manganite, and pyrolusite. The following report is cited, covering the property: U. S. Geological Survey Bullatin 921-A; Manganese Carbonate in the Batesville District, Arkansas; H. D. Miser, 1940.

Reason for wishing to explore are that surface indications and hand trenching show the presence of manganese ore minerals. The subject property is also located within a district where active manganese mining has been and is now being done

4 (d) County maintained all-weather road passes within a quarter of a mile from the property. Closest shipping, supply, and residence point is Cushman, Arkansas. Missouri Pacific railroad spur comes to Cushman.

5 (b) It is proposed to explore the subject property for manganese ore by means of a one cubic yard capacity drag line excavator (Lima, Paymaster Model) it is proposed to excavate five Parallel trenches across the 40-acre tract, the trenches will be thus 220 feet apart, see enclosed sketch showing plan and typical trench section proposed. For purpose of calculation it is assumed that the trenches will average about 30 feet in depth

There are no present mine workings.

The proposed trenches will cut across geologic strata on the property; will cut vertically through any overburden present; and will expose any manganese ore present.

5 (d) The applicant has had a successful background of experience consisting of 6 years of general contracting in earthmoving and excavation. The applicant will supervise the operations

6 (b) Labor, Supervision, Consultants.
1 trench (1320 ' x 30') = 27,866 Cu. Yds.
5 trenches (1320' x 30') = 139,330 Cu. Yds
Approx. 200 working days to complest @ 10 Hrs per day.

Estimate of costs per day.

Rental of drag line (10 hrs @ 12.50)	$ 125.00
Supervision, Assays, Surveying, Materials and supplies	27.50
Contingencies (10% of above)	15.25
Total Estimated cost per day	$ 167.75

Total Project Cost = $167.75 (cost per day) X 200 days = $33,550.00 WPW

6 (d) Drag line will be furnished by applicant, for a rental price of $12.50 per hour.

6 (f) No Buildings, Improvements, Installations.

MINING LEASE

THIS INDENTURE, made and entered into this 23 day of March, 1953, by and between H. H. Fair and Reitha Fair, his wife, of H. H. Fair, Arkansas, hereinafter called the Party of the First Part, and O. N. Morse, hereinafter called Party of the Second Part.

WITNESSETH: That for and in consideration of the sum of One Dollar, in hand paid, the receipt of which is hereby acknowledged, and the undertakings and agreements hereinafter set forth to be kept and performed by the Party of the Second Part his successors and assigns, the Party of the First Part by these presents does hereby lease and demise unto the Party of the Second Part their successors and assigns, for the mining of all ores and minerals and for all mining purposes, the following described lands lying, being and situate in the County of Independence and State of Arkansas, to-wit:

The Northwest Quarter of the Northwest Quarter of Section 13, Twp. 14 North, Range 7 West, containing 40 acres more or less.

TO HAVE AND TO HOLD the above described premises for a period of 10 years, or so long as ores and minerals can be found thereon in paying quantities, under the following terms and conditions:

1. The Party of the Second Part his successors or assigns, shall begin operations of mining on said land within twelve months from the date of this lease, which shall be carried on in good faith and shall not be suspended for more than one year without the written permission of the Party of the First Part, except for the Act of God, fire, strikes and such like causes, while the same shall continue to prevail. This lease shall not be forfeited when the low price of ore shall make it unprofitable to operate same. Said mining shall be carried on in a good and workmanlike manner, and the Party of the Second Part shall keep all shafts and drifts well and securely timbered and supported, and shall not remove such supports and timbers so as to endanger the ground and cause same to fall or cave in.

2. The Party of the Second Part shall keep a correct account of all ore and minerals mined and sold, the kind and weight thereof, to whom sold and the amount received therefor, which records shall be open to the inspection of the Party of the First Part at all reasonable times.

3. When Party of the Second Part shall sell any ores or minerals from said lands, he shall deposit to the credit of the Party of the First Part in the First National Bank, of Batesville, Arkansas, a sum equal to ten per cent of the ~~net~~ gross amount received from the sale of such ores or minerals from said lands.

4. The Party of the Second Part shall have the right to erect all necessary buildings and machinery on said land, and shall have the free use of all water and timber for the successful operation of mining, smelting and refining the said ores and minerals, and shall have the right to remove such improvements at the expiration or forfeiture of this lease, except the timbers necessary to protect said ground.

5. In the event that Party of the Second Part his successors or assigns, shall fail to carry on the work of mining on said land as above stipulated during any one-year period from and after the date allowed to begin operations hereon he may, before the end of such annual period, pay to the Party of the First Part, cash to the amount of 50¢ per acre of the above described lands, and payment of such sums to be made annually, within the time provided shall keep this lease in full force and effect, the same as if said work stipulated herein to be done had been done.

6. A failure on the part of the Party of the Second Part to carry out the conditions of this lease shall be a cause of forfeiture of the same, and Party of the First Part may take possession of said lands. ~~Party of the Second Part may forfeit said lease by paying to the Party of the First Part the sum of Ten Dollars and advising him to that effect by mail at the address given above.~~

7. Lessee shall pay for damages caused by his operations to growing crops on said land.

8. Option to Purchase.—Lessor in consideration of the premises and the agreement of Lessee herein contained grants, lets and extends unto Lessee the sole and exclusive option to purchase the land herein described for a period of one year from date hereof for the sum of $____, and agrees to make Lessee a good and warranty deed conveying said land on payment of said sum within said time, and further agrees to extend this option for an additional period of one year on payment of $____ by Lessee within one year from date hereof.

And the said Reitha Fair, wife of the said H. H. Fair for the consideration aforementioned, does hereby release and relinquish unto the said Party of the Second Part, all of her right of dower and homestead in and to said described minerals and ores.

Witness our hands and seals this, the 23 day of March, 1953.
Witnsesed by:

H. H. Fair (Seal)
Mrs. H. H. Fair (Seal)

ACKNOWLEDGMENT

STATE OF ARKANSAS,
County of Independence ss.

BE IT REMEMBERED, That on the 23 day of March, 1953, before me, a ~~Notary Public~~ Circuit Clerk, within and for the County and State aforesaid, personally appeared H. H. Fair and Reitha Fair, his wife to me personally known to be the persons who executed the within and foregoing instrument, and acknowledged that they had executed the same for the consideration and purpose therein mentioned and set forth.

And on the same day voluntarily appeared before me the said Reitha Fair wife of the said H. H. Fair, to me well known, and in the absence of her husband, declared that she had, of her own free will, executed said lease and signed and sealed the relinquishment of dower and homestead in said lease, for the consideration and purpose mentioned and set forth, without compulsion or undue influence of her said husband.

Witness my hand and seal as such Notary Public, this 23 day of March, 1953.

Pricie Evans, Circuit Clerk
~~Notary Public.~~
By: Erma Evans, D. C.

ASSIGNMENT

KNOW ALL MEN BY THESE PRESENTS:

That ....., the within named grant..... in consideration of the sum of $..... to ..... in hand paid, the receipt whereof is hereby acknowledged, do ..... hereby sell, assign, transfer, set over and convey unto ..... heirs and assigns, the within grant.

TO HAVE AND TO HOLD THE SAME FOREVER, subject nevertheless to the conditions therein contained .

In Witness Whereof, The said grant..... ha..... hereunto set.....hand..... this the .....day of ....., 193.....

Witness: ....(Seal)

ACKNOWLEDGMENT TO ASSIGNMENT

STATE OF ARKANSAS,
County of ..... ss.

On this the .....day of....., 193....., before me, the undersigned as a Notary Public, in and for the County and State aforesaid, personally appeared ..... to me well known to be the person..... who executed the within and foregoing instrument, and acknowledged that ..... executed the same.....for the consideration and purpose therein mentioned and set forth.

Witness my hand and seal as such Notary Public, this.....day of ....., 193.....

.....
Notary Public.

MINERAL LEASE

FROM .....

TO .....

Date.....193.....
Section..... Township..... Range.....
No. of Acres .....
County, Ark.
Terms:.....years.

CERTIFICATE

STATE OF ARKANSAS,
County of Independence ss.

This instrument was filed for record on the 24th day of March, 1953, at 9:30 o'clock A. M., and duly recorded with the acknowledgment and certificate thereon in Record Book 12, page 255-256.

In Witness Whereof, I have hereunto set my hand and affixed the seal of said court, on this 24th day of March, 1953.

Pricie Evans
Clerk and Ex-Officio Recorder.
By Erma Evans, D. C.

OFFICIAL CERTIFICATE

STATE OF ARKANSAS
ss.
County of Independence

I, Prior Evans, Clerk of the Circuit and Chancery Courts and Recorder for the County and State aforesaid, duly commissioned and acting, do hereby certify that the annexed and foregoing Two (2) pages are a true and perfect copy of the original as the same appears of record in my office in Batesville, Arkansas, in Book 12 Page 255-256 of Lease & Contract.

Witness my hand and seal of Court at Batesville, Arkansas, this 24th day of March, 1953.

Prior Evans Clerk

By Erma Evans D. C.

Amea 2971

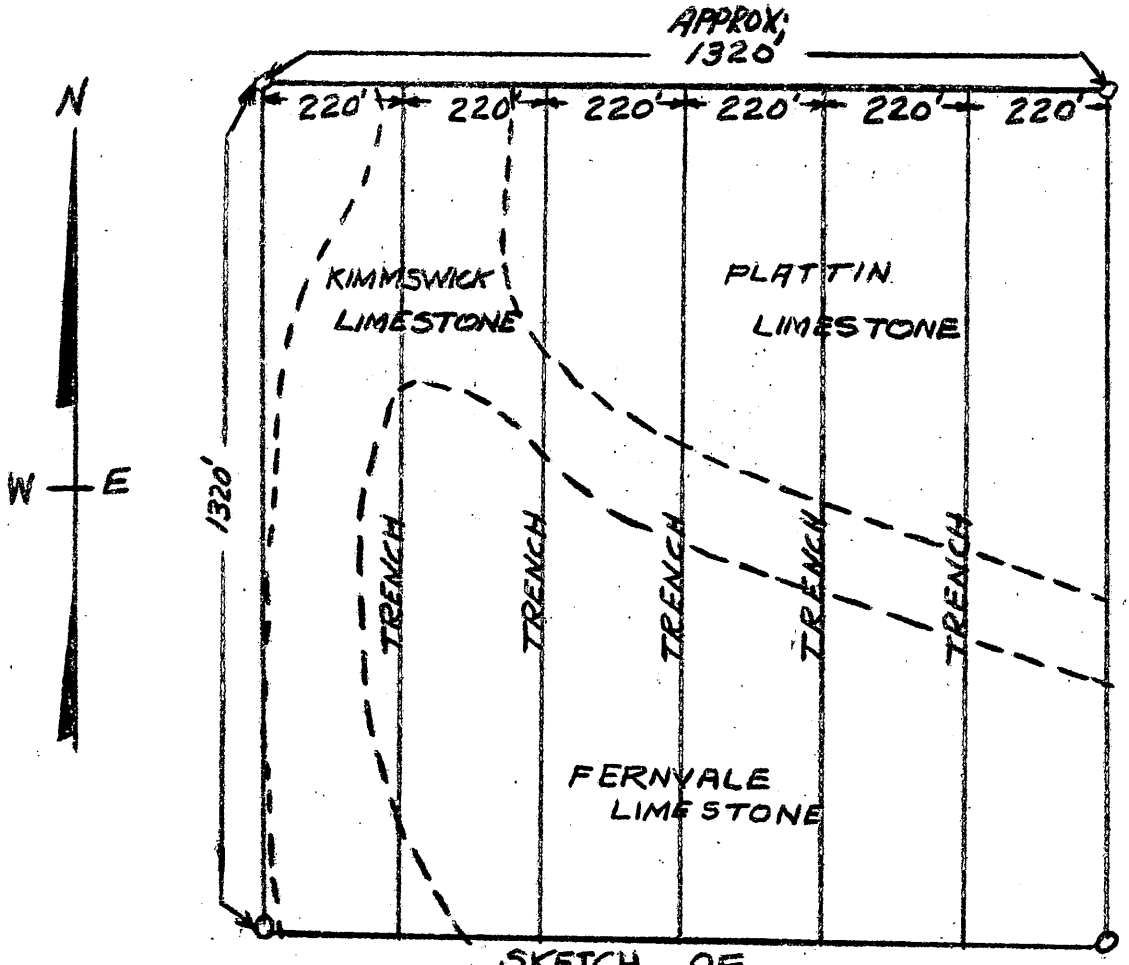
dmw 2971

W. D. COBB

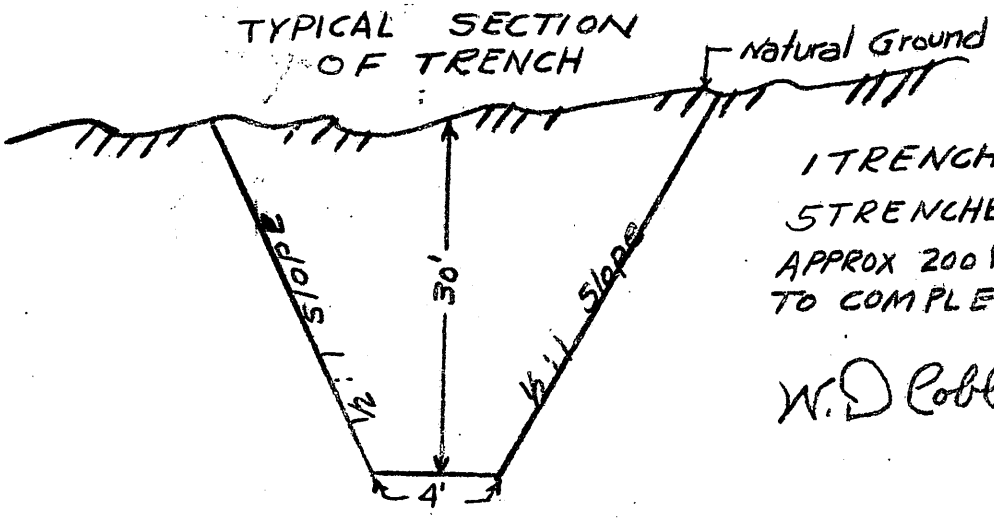
CIVIL ENGINEER

HOME PHONE 822 | P. O. BOX 401 | OFFICE PHONE 2261

BLYTHEVILLE, ARKANSAS



SKETCH OF
NW¼ OF THE NW¼
SECTION 13, T14N, R7W
INDEPENDENCE COUNTY, ARK.



1 TRENCH = 27,866 Cu. Yds.
5 TRENCHES = 139,330 Cu Yds.
APPROX 200 WORKING DAYS
TO COMPLETE @ 10 Hrs. Per Day.

W. D. Cobb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Joplin, Missouri

OFFICIAL BUSINESS

JOPLIN
APR 31
4 PM
1953

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

Operating Committee
Defense Minerals Exploration Administration
U. S. Department of Interior
Interior Building
Washington 25, D. C.

DMBA 2971

DMBA 297