MAR 27 1952

Mr. John T. Gaskins
Grandpier Mining Company
Elizabethtown, Illinois

Re: DMEA Docket No. 2246
(Fluorspar)
Grandpier Mine

Dear Mr. Gaskins:

This letter is in acknowledgement of your letter of March 17, 1952, in which you state that your company no longer wants the exploration project loan that was applied for under DMEA 2246.

Complying with your wishes in the matter, please be advised that your application will be considered as being withdrawn and will be placed in our closed files.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

JTRobertson/FEJohnson/mp/bih
3/26/52
cc to: Docket
Admr's Reading File
Region VIII
Messrs. T.L.Neumann, Region VIII
R. .Van Alstine C-232 GSA Bldg.
H. W. Davis R-3519
J.L.Hafflund
ICHenk
FEJohnson

C O P

GRANDPIER MINING CORPORATION
(Empire Division)
Elizabethtown, Illinois

March 17, 1952

Mr. Lawrence C. Houk:

Dear Sir:

In reply to your letter of 3/12/52 - in regard to the exploration loan for the Grandpier Corporation - Docket No. DMSA-2246 - Fluorspar.

We have recently acquired the stock of the Grandpier Corp. and intend to lease the property to other parties to do the mining and exploring - so we do not want the loan now.

Thanking you for your past interest and troubles - I remain

Respectfully yours,

John T. Gaskins (Signed)

C O P Y

600 MAR 1 2 1952

Mr. John G. Gaskins
C/o Omar R. Austin
Grandpier Mining Corporation
R. F. D. #2
Elizabethtown, Illinois

Subject: Docket No. DMEA-2246 - Fluorspar
Grandpier Mine
Pope County, Illinois

Dear Mr. Gaskins:

May we hear from you in reply to our letter of February 21, 1952?

We would like to know if your company still wishes to obtain the exploration loan requested in the subject application submitted November 6, 1951, and if so, we would like to receive a copy of the lease agreement and six copies of subordination agreement requested in our last letter.

We would appreciate a reply at your earliest convenience.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

JTRobertson:gad 3/10/52
Copy to: Admin. Reading File
Mr. Davis, 3519
Mr. VanAlstine, G-232, GSA Bldg.
Docket File
Mr. Houk

600 Feb. 21, 1952

Mr. John G. Gaskins
Grandpier Mining Corporation
109 South Vine Street
Harrisburg, Illinois

Subject: Docket No. DMA-2246
Fluorspar
Grandpier Mine

Dear Mr. Gaskins:

In a long-distance telephone conversation with Mr. Omar Austin we learned that there had been some changes in the company and he advised that he was no longer secretary. He also stated that correspondence relative to the company's application, DMA-2246, should be referred to you.

We are in the midst of processing the application and find that we now require a subordination signed by the sub-lessor. For your convenience, we enclose seven of our usual forms for this purpose, Form MF-201, and ask that you return six signed copies.

We also require a copy of the original lease, which in your case, as we understand it, is a Government lease. We would like a copy of this lease so that we may be informed of the terms under which the sub-lessor acquired the right to work and mine the land, and the right to sub-lease. If a Government agency is the primary lessor, their subordination is not necessary.

If the change in the officers of the company has caused any change in the company's plans to proceed with the project, please advise. Otherwise, we take it, that the company is still in existence the same as before, and still wants the exploration project loan in the sum of $7,400 as requested in the original application.

Upon receipt of your reply, we will be prepared to resume the processing of the case.

JRRobertson:gad 2/21/52
Copy to: Mr. Davis, 3519
Mr. Van Alstine, G-232 GSA Bldg.
Mr. Gus Newman, College Park, Md.
Admin. Reading File
Docket File
Mr. Hook

Sincerely yours,

Lawrence G. Hook, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

Enclosures 7

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

Feb. 21, 1952

Mr. John G. Gaskins
Grandpier Mining Corporation
109 South Vine Street
Harrisburg, Illinois

Subject: Docket No. DMEA-2246
Fluorspar
Grandpier Mine

Dear Mr. Gaskins:

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JTRobertson:gad 2/21/52
Copy to: Mr. Davis, 3519
Mr. Van Alstine, G-232 GSA Bldg.
Mr. Gus Neuman, College Park, Md.
Admin. Reading File
Docket File
Mr. Houk

Sincerely yours,

Signed

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

Enclosures 7

MF-200
(June 1951)

DMEA-2246
Docket No. ~~XXXX~~ .....
Commodity Fluorspar

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DIVISION COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Grandpier Mining Corporation, an Illinois Corporation Elizabethtown, Illinois

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Illinois, County of Pope described as follows: [3] A leased tract of land covering the northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section thirty-four (34) Township eleven (11) South, Range seven (7) East of the principal meridian. The right to work and mine the land is more fully described in Annex I attached hereto.

with respect to which the Operator represents and undertakes: [4]

(*a*) ~~That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:~~

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] fluorspar; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] six (6) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment and other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $3,700.00, which is 50 percent of the agreed estimated total cost of this project, $7,400.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

Grandpier Mining Corporation
(Operator)

By President

By Secretary

THE UNITED STATES OF AMERICA

By Acting Administrator, Defense Minerals Exploration Administration

Gaston Hoffelmeier (Form)
Hook

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

ANNEX I

The right to work and mine the property is contained in a Mining Sub-lease Agreement entered into the 18th day of August 1949 by and between Louie J. Gaskins, sub-lessor and Calvin Stacey, Wayne M. Koster, Omar R. Austin and Kenneth F. Austin, the sub-lessee. The sub-lessee in turn assigned the lease to the Grandpier Mining Corporation in accordance with a Transfer, Assignment and Acceptance Agreement, dated December 27, 1949, at Elizabethtown, Illinois. A slight modification is contained in a Supplemental Agreement dated November 7, 1950. Title to the surface of the land, according to the sub-lease is in the United States of America.

EXPLORATION PROJECT CONTRACT
THE GRANDPIER MINING CORPORATION
DOCKET NO. DMEA-2246

EXHIBIT "A"

Statement of the Work

The purpose of the project is to explore for fluorspar ore along a length of 1,000 feet of the "Empire Fault" extending to the southwest of the present mine workings.

Four diamond drill holes are to be drilled at 200-foot intervals along the fault, inclined at an angle of 45° and drilled to depths of approximately 550 feet, a total footage of approximately 2,200 feet. Cores shall be taken, a careful log kept on each hole, and tests and samples assayed for fluorspar and other strategic minerals, such as lead and zinc.

Estimated Costs of the Project

The estimated total cost of the project is $7,400 distributed into three major items as the following:

Drilling contract, 2,200 feet @ $3.00/ft.	$6,600.00	
Extra for grouting	400.00	
Assaying and core handling	400.00	
Estimated total cost of the project		$7,400.00

The Government's contribution shall be 50 percent of the total cost and not to exceed $3,700.00. The Operator's contribution shall be a like amount, 50 percent.

Three maps attached:- Fig. 2, Fig. 3, and Fig. 4.

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

February 12, 1952

Memorandum

To: Acting Administrator

From: Chief Counsel

Subject: The Grandpier Mining Corporation exploration project — Docket No. DMEA-2246

Attached are seven copies of the Exploration Project Contract prepared in this case on the basis of the draft which you submitted to us on February 8, 1952. Prior to delivery appropriate subordination agreements or consents should be obtained from the sub-lessor and the principal lessor and the contract should be properly signed on behalf of the Operator and the Government and properly dated. Copies of the necessary maps should be attached to the copies of the contract.

Your file is returned herewith.

J. L. Hofflund

J. L. Hofflund
Chief Counsel

Attachments

Docket Memo of Phone Call
Omar Austin no longer secy + Vice pres.
of Grandpier Mining Corp.
Affairs of company now in hands of
John T. Gaskins 109 S. Vine St.,
Harrisburg, Illinois + Correspondence
should be referred to latter.

Feb. 14, 1952

J. T. Robertson

February 7, 1952

Memorandum

To: Mr. L. G. Houk, DMEA

From: Mr. N. E. Nelson, GS

Subject: DMEA-2246, Application of Grandpier Mining Corporation

This application for assistance in establishing by drilling additional indicated and inferred fluorspar, lead, and zinc ore in the Grandpier Mine in Pope County, Illinois, appears to be well warranted.

No field examination has been made by a Geological Survey man in connection with this application. The mine would have to be pumped out in order to see anything. Presumedly ore would be seen in place in the stope faces and if there it would lend substance to the reports of ore in three old drill holes. Since the drilling planned is to check and extend the ore indicated by the stoping and the three drill holes, failure to see ore would not necessarily preclude the exploratory drilling.

The data furnished by the application and given to Mr. Neumann are considered reliable and sufficient to justify drawing of a contract.

N. E. Nelson

Ned E. Nelson
Geologist

NENelson:emp

cc: McHenry Mosier, College Park

Department of the Interior

C O P Y

GEOLOGICAL SURVEY

Washington 25, D. C. January 7, 1952

Memorandum

To: Mr. Lawrence G. Houk, Defense Minerals Exploration Administration

From: Ralph E. Van Alstine, Geological Survey

Subject: DMEA-2246, Grandpier Mining Corporation, Elizabethtown, Illinois, application for exploration assistance, $7,400 total cost, to search for fluorspar, lead, and zinc in NW¼ NW¼ Sec. 34, T. 11 S., R. 7 E., Pope County, Illinois.

It is recommended that the subject application be referred to the field team for comment. As the mine is said to be partly flooded, however, it is questionable as to what could be gained by a visit to the property.

The reported $8,200 loss in one year's operation followed by suspension of work on the property is said to be the result of lack of proper milling facilities. The purpose of the proposed exploration is to develop sufficient ore reserves to warrant erection and operation of a suitable mill ~~and~~ adjacent to the mine. If the applicant's reserves are as claimed (13,500 tons of measured ore and 56,000 tons of indicated ore) and his figure of $22.85 net return per ton of crude ore is correct, verification by the field team might show that present reserves already are large enough to justify construction of a mill.

The Empire fault system, on which the applicant's property seems to be located, has a known strike length of more than 3,000 feet, mostly northeast of his property. Fluorspar deposits along this fault have been worked intermittently at four properties (Grandpier, Redd, Empire, and Crabb).

The applicant may be able to explain the following apparent discrepancies. He states that the shaft along the east property line was sunk in 1937 to a depth of 90 feet, crosscuts were driven north 75 feet and south 25 feet, and hole number 1 drilled by him late in 1949 beneath the shaft cut 5 feet of ore (see reported assay). An 85-foot prospect shaft starting in Cypress sandstone is reported to have been sunk here by Farley Gullett of Golconda, Illinois, in 1941-42, however; crosscuts were driven northwest 95 feet and southeast 16 feet without finding indications of the vein; and a diamond drill hole, shown in 1943 where the applicant's recent hole number 1 is indicated on figures 3 and 4, undercut the shaft with similar negative results.

/s/ Ralph E. Van Alstine
Ralph E. Van Alstine

Grand pier Mining Co DMEA 2246
Fluorspar

FILE COPY 600
SURNAME:

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

MAR 27 1952

Mr. John T. Gaskins
Grandpier Mining Company
Elizabethtown, Illinois

Re: DMEA Docket No. 2246
(Fluorspar)
Grandpier Mine

Dear Mr. Gaskins:

This letter is in acknowledgement of your letter of March 17, 1952, in which you state that your company no longer wants the exploration project loan that was applied for under DMEA 2246.

Complying with your wishes in the matter, please be advised that your application will be considered as being withdrawn and will be placed in our closed files.

Sincerely yours,

C. O. Mittendorf (for)
Acting Administrator
Defense Minerals Exploration Administration

S.N. 3-27-52

JTRobertson/FEJohnson/mp/bih
3/26/52
cc to: Docket
Admr's Reading File
Region VIII
Messrs. T.L.Neumann, Region VIII
R.E.Van Alstine G-232 GSA Bldg.
H. W. Davis R-3519
J.L.Hofflund
LGHouk
FEJohnson

FILE COPY
SURNAME:

Robertson
Houk
Van Alstine
Davis

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

600

Mr. John T. Geskins
Grandpier Mining Company
Elizabethtown, Illinois

Subject: Docket No. DMRA-2246
Fluorspar
Grandpier Mine

Dear Mr. Geskins:

This letter is in acknowledgement of your letter of March 17, 1952, in which you state that your company no longer wants the exploration project loan that was applied for under DMRA-2246.

Complying with your wishes in the matter, we now advise that the application is terminated.

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

JTRobertson:mp
3/21/52
cc: Region VIII (2)
Mr. T. L. Neumann, Region VIII
H. W. Davis, Rm 3519
R. E. Van Alstine, G-232, GSA Bldg.
J. L. Hoffland
Adm. Reading File
Docket File
Mr. Houk

~~WARD C. AUSTIN, Secy.-Treas.~~ ~~OMAR R. AUSTIN, Secy.-Treas.~~

GRANDPIER MINING CORPORATION

(EMPIRE DIVISION)

ELIZABETHTOWN, ILLINOIS

Producers of
Fluorspar
Lead & Zinc

~~Phone~~
~~Resident~~
~~1117~~

March 17 - 1952

Mr. Lawrence J. Houb

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 19 1952

Dear Sir:

In reply to your letter of 3/12/52 - in regard to the exploration loan for the Grandpier Corporation - Docket No. DMEA-2246 - Fluorspar!

We have recently acquired the stock of the Grandpier Corp. and intend to lease the property to other parties to do the mining and exploring - so we do not want the loan now.

Thanking you for your past interest and trouble - I remain -

Respectfully Yours,
John J. Gobino

FILE COPY
SURNAME:

Robertson
Nutt

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

MAR 1 2 1952

Mr. John G. Gaskins
C/o Omar R. Austin
Grandpier Mining Corporation
R. F. D. #2
Elizabethtown, Illinois

Subject: Docket No. DMEA-2246 - Fluorspar
Grandpier Mine
Pope County, Illinois

Dear Mr. Gaskins:

May we hear from you in reply to our letter of February 21, 1952?

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We would appreciate a reply at your earliest convenience.

Sincerely yours,

SIGNED E.L. 3/12/52

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

JTRobertson:gad 3/10/52
Copy to: Admin. Reading File
Mr. Davis, 3519
Mr. VanAlstine, G-232, GSA Bldg.
Docket File
Mr. Houk

FILE COPY
SURNAME:

Robertson
Merritt

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

FEB 21 1952

Mr. John G. Gaskins
Grandpier Mining Corporation
109 South Vine Street
Harrisburg, Illinois

Subject: Docket No. DMEA-2246
Fluorspar
Grandpier Mine

Dear Mr. Gaskins:

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Upon receipt of your reply, we will be prepared to resume the processing of the case.

JTRobertson:gad 2/21/52
Copy to: Mr. Davis, 3519
Mr. Van Alstine, G-232 GSA Bldg.
Mr. Gus Neuman, College Park, Md.
Admin. Reading File
Docket File
Mr. Houk

Sincerely yours,

[signature]

Lawrence G. Houk, Chief
Non-Metallic Minerals Division
Defense Minerals Exploration
Administration

Enclosures 7

Phone memo for Docket - DMEA-2246 - Fluorspar
Grandpier Mine
Elizabethtown, Illinois

February 18, 1952, Mr. Robertson talked with Mr. Omar Austin, Vice President and Secretary, Grandpier Mining Corporation, R.F.D.#2, Elizabethtown, Illinois. Informed by Mr. Austin that a change in the officers and participants in the company had occurred. He advised that he no longer was an officer of the company and that the affairs of the company were now in the hands of John T. Gaskins, 109 G. Vine Street, Harrisburg, Illinois, and that correspondence should be referred to John T. Gaskins.

J. T. Robertson

UNITED STATES 140
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

February 12, 1952

Memorandum

To: Acting Administrator

From: Chief Counsel

Subject: The Grandpier Mining Corporation exploration project — Docket No. DMEA-2246

Attached are seven copies of the Exploration Project Contract prepared in this case on the basis of the draft which you submitted to us on February 8, 1952. Prior to delivery appropriate subordination agreements or consents should be obtained from the sub-lessor and the principal lessor and the contract should be properly signed on behalf of the Operator and the Government and properly dated. Copies of the necessary maps should be attached to the copies of the contract.

Your file is returned herewith.

J. L. Hofflund
Chief Counsel

Attachments

FILE COPY
SURNAME:

Guthrie

140

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

February 12, 1952

Memorandum

To: Acting Administrator

From: Chief Counsel

Subject: The Grandpier Mining Corporation exploration project — Docket No. DMEA-2246

Attached are seven copies of the Exploration Project Contract prepared in this case on the basis of the draft which you submitted to us on February 8, 1952. Prior to delivery appropriate subordination agreements or consents should be obtained from the sub-lessor and the principal lessor and the contract should be properly signed on behalf of the Operator and the Government and properly dated. Copies of the necessary maps should be attached to the copies of the contract.

Your file is returned herewith.

J. L. Hofflund

J. L. Hofflund
Chief Counsel

N.S
R+R

Attachments

RRGuthrie/bjl

Copy to: Mails & Files
J. L. Hofflund
R. R. Guthrie
Chron.

A.H.

IN REPLY REFER TO:

G-MD-REVA

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

January 7, 1952

Memorandum

To: Mr. Lawrence G. Houk, Defense Minerals Exploration Administration

From: Ralph E. Van Alstine, Geological Survey

Subject: DMEA-2246, Grandpier Mining Corporation, Elizabethtown, Illinois, application for exploration assistance, $7,400 total cost, to search for fluorspar, lead, and zinc in NW¼ NW¼ Sec. 34, T. 11 S., R. 7 E., Pope County, Illinois.

It is recommended that the subject application be referred to the field team for comment. As the mine is said to be partly flooded, however, it is questionable as to what could be gained by a visit to the property.

The reported $8,200 loss in one year's operation followed by suspension of work on the property is said to be the result of lack of proper milling facilities. The purpose of the proposed exploration is to develop sufficient ore reserves to warrant erection and operation of a suitable mill adjacent to the mine. If the applicant's reserves are as claimed (13,500 tons of measured ore and 56,000 tons of indicated ore) and his figure of $22.85 net return per ton of crude ore is correct, verification by the field team might show that present reserves already are large enough to justify construction of a mill.

The Empire fault system, on which the applicant's property seems to be located, has a known strike length of more than 3,000 feet, mostly northeast of his property. Fluorspar deposits along this fault have been worked intermittently at four properties (Grandpier, Redd, Empire, and Crabb).

The applicant may be able to explain the following apparent discrepancies. He states that the shaft along the east property line was sunk in 1937 to a depth of 90 feet, crosscuts were driven north 75 feet and south 25 feet, and hole number 1 drilled by him late in 1949 beneath the shaft cut 5 feet of ore (see reported assay). An 85-foot prospect shaft starting in Cypress sandstone is reported to have been sunk here by Farley Gullett of Golconda, Illinois, in 1941-42, however; crosscuts were driven northwest 95 feet and southeast 16 feet without finding indications of the vein; and a diamond drill hole, shown in 1943 where the applicant's recent hole number 1 is indicated on figures 3 and 4, undercut the shaft with similar negative results.

REVan Alstine:jeh
G-1/7/52
copy to: Director's Reading file 4212 GS Bldg.
Branch read. file 4212
DMEA
Van Alstine
Ralph E. Van Alstine
JJNorton
Nelson
Davis, B.M.

FILE COPY
SURNAME:

Blakemore
Mittendorf

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

DEC 6 1951

Mr. Oscar R. Austin, Sec-Treas.
Grandpier Mining Corporation
R.F.D. #2
Elizabethtown, Illinois

Re: Docket No. 2246X
Grandpier Mine

Dear Mr. Austin:

Our examination of the subject docket applying for an Exploration Contract has failed to find a copy of a lease from the owner in favor of Mr. Louis J. Gaskins.

According to the lease from Mr. Gaskins to Calvin Stacey et al, the title to the surface of this property is in the United States of America. If the Government owns the surface rights, it seems that the title to the mineral rights may be owned by another party who has leased it to Mr. Gaskins. Please advise this office of the ownership or ownerships involved and furnish a copy of the owner's lease to Mr. Gaskins.

One of the requirements for obtaining an Exploration Contract is a Landlord's Subordination Agreement and for your convenience, there are enclosed several Forms MF-202 for that purpose. When the original and five copies have been duly executed by the Landlord, mail them to this office together with the copy of the lease from the owner referred to above.

There is also enclosed for your guidance a copy of "Questions and Answers on the Mineral Exploration Program".

On receipt of the data and documents listed above, we will be prepared to give further consideration to your application.

Sincerely yours,

C. O. Mittendorf (fw)

Acting Administrator
Defense Minerals Exploration
Administration

12-6

Enclosures-7

PBBlakemore/meh
12/4/51

cc to: Adm. Reading File
Reports and Records
Mr. Davis
Region VIII (2)
Mr. Mittendorf
Mr. Blakemore
Mr. VanAlstine
Docket

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

~~WASHINGTON 25, D.C.~~

College Park, Maryland

February 7, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 8 1952

Memorandum

To: Frank E. Johnson, Chairman
Operating Committee, DMEA

From: Executive Officer, Field Team, Region VIII

Subject: Field Team Review - Docket DMEA 2246 - Fluorspar
Grandpier Mining Corp., Elizabethtown, Illinois

This application was drawn up with the assistance of G. L. Neumann, Field engineer, Region VIII. Neumann reports that this is an outstanding example of places, where DMEA can definitely show an increase in production of strategic minerals by giving aid in exploration.

The 13,500 tons of measured ore are not sufficient reserves to warrant the construction of a 100 ton mill. The additional 56,000 tons of ore is indicated and inferred from drill holes and can not justify mill construction until further exploration proves a good portion of it as measured ore. The application might well be amended to include an extension of the drift on the 300 level if ore is cut in the proposed drilling. However since this would cause a delay in getting operations started, approval of the original application is recommended.

Should the drilling prove favorable, a second application could then be submitted for further exploration by underground methods.

The applicant, Mr. Omar R. Austin, has had considerable successful experience in mining and milling vein-deposits of fluorite.

Mr. Ned Nelson concurs in the conclusions herein stated, as documented in his letter to Mr. L. G. Houk dated February 7, 1952.

The Field Team does not have a copy of this docket in its files.

McHenry Mosier

McHenry Mosier

Reviewed by
DMEA OPERATING COMMITTEE
2-15-52 (RL)
(date)
Copy made for Mines & Survey 2/15/52 RL.

Attachments

IN REPLY REFER TO:

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

February 7, 1952

Memorandum

To: Mr. L. G. Houk, DMEA

From: Mr. N. E. Nelson, GS

Subject: DMEA-2246, Application of Grandpier Mining Corporation

This application for assistance in establishing by drilling additional indicated and inferred fluorspar, lead, and zinc ore in the Grandpier Mine in Pope County, Illinois, appears to be well warranted.

No field examination has been made by a Geological Survey man in connection with this application. The mine would have to be pumped out in order to see anything. Presumedly ore would be seen in place in the stope faces and if there it would lend substance to the reports of ore in three old drill holes. Since the drilling planned is to check and extend the ore indicated by the stoping and the three drill holes, failure to see ore would not necessarily preclude the exploratory drilling.

The data furnished by the application and given to Mr. Neumann are considered reliable and sufficient to justify drawing of a contract.

N. E. Nelson

Ned E. Nelson
Geologist

FILE COPY
SURNAME:

Robertson
Houk
Thayer
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

JAN 31 1952

Grandpier Mining Corporation
R. R. #2
Elizabethtown, Illinois

Subject: Docket No. DMEA-2246 - Fluorspar
Grandpier Mine

Gentlemen:

Your application is being referred to Mr. McHenry Mosier Executive Officer, DMEA Field Team, Region VIII, Eastern Experiment Station, College Park, Maryland, for further information.

Sincerely yours,

C. O. Mittendorf (for) 1-31-52

Acting Administrator
Defense Minerals Exploration
Administration

JTRobertson:gad
1/28/52

Copy to: Admin. Reading File
Mr. W. F. Dietrich, 3526
Mr. J. J. Norton, Rm. G-228, GSA Bldg.
Docket File
Mr. Houk
Mr. Robertson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

JAN 31 1952

Mr. McHenry Mosier
Executive Officer, Region VIII
DMEA Field Team
Bureau of Mines
College Park, Maryland

Subject: Docket No. DMEA-2246 - Fluorspar
Grandpier Mining Corporation
Elizabethtown, Illinois

Dear Mr. Mosier:

We send you herewith a memo by H. W. Davis, Bureau of Mines, and one by Ralph E. Van Alstine, U. S. Geological Survey; both concern a field team review of the subject application.

We ask that a field team review be made of this case and, if deemed necessary, a field examination.

Enclosed find complete file of material:

Applicant: Grandpier Mining Corporation
Docket No: DMEA-2246
Commodity: CaF_2 - Zn - Pb
Amount: $7,400

Please expedite and upon completion return material together with your comments and recommendations.

Sincerely yours,

Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures 3

Approved:

T. H. Hedges
For Bureau of Mines

T. P. Thayer
For Geological Survey

FILE COPY
SURNAME:

Robertson
Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

JAN 31 1952

Mr. McHenry Mosier
Executive Officer, Region VIII
DMEA Field Team
Bureau of Mines
College Park, Maryland

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Elizabethtown, Illinois

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Sincerely yours,

cc
1-3/-52

(signed) FRANK E. JOHNSON
HB

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures 3

Approved:

J. H. Hedges
For Bureau of Mines HB

L. P. Thayer
For Geological Survey
HB

JTRobertson:gad
1/28/52
Copy to: Admin. Reading File
Mr. W. F. Dietrich, 3526
Mr. J. J. Norton, Rm. G-228, GSA Bldg
Docket File
Mr. Houk

Make Copy 4

IN REPLY REFER TO:

G-MD-REVA

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

January 7, 1952

Memorandum

To: Mr. Lawrence G. Houk, Defense Minerals Exploration Administration

From: Ralph E. Van Alstine, Geological Survey

Subject: DMEA-2246, Grandpier Mining Corporation, Elizabethtown, Illinois, application for exploration assistance, $7,400 total cost, to search for fluorspar, lead, and zinc in NW¼ NW¼ Sec. 34, T. 11 S., R. 7 E., Pope County, Illinois.

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The reported $8,200 loss in one year's operation followed by suspension of work on the property is said to be the result of lack of proper milling facilities. The purpose of the proposed exploration is to develop sufficient ore reserves to warrant erection and operation of a suitable mill adjacent to the mine. If the applicant's reserves are as claimed (13,500 tons of measured ore and 56,000 tons of indicated ore) and his figure of $22.85 net return per ton of crude ore is correct, verification by the field team might show that present reserves already are large enough to justify construction of a mill.

The Empire fault system, on which the applicant's property seems to be located, has a known strike length of more than 3,000 feet, mostly northeast of his property. Fluorspar deposits along this fault have been worked intermittently at four properties (Grandpier, Redd, Empire, and Crabb).

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Ralph E. Van Alstine

Ralph E. Van Alstine

3294

Department of the Interior

C O P Y

GEOLOGICAL SURVEY

Washington 25, D. C. January 7, 1952

Memorandum

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From: Ralph E. Van Alstine, Geological Survey

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/s/ Ralph E. Van Alstine
Ralph E. Van Alstine

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : L. Houk

DATE: 12-18-51

FROM : G. Neumann

SUBJECT: Grandpier

Enclosed are 4 copies of Grandpier figures 2 - 3 + 4. Also herewith are copies of letters from ~~f~~ to Omar Austin and myself.

GN

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 26 1951

WAYNE M. KOSTER, Pres.

OMAR R. AUSTIN, Secy.-Treas.

GRANDPIER MINING CORPORATION

(EMPIRE DIVISION)

ELIZABETHTOWN, ILLINOIS

Producers of
Fluorspar
Lead & Zinc

Phone
Rosiclare
111T

December 4th. 1951.

Mr. Gustave Newman,
College Park, Md.

Friend Gus:

Since you were here and we had so much fun, cussing and discussing, the mining problems encountered by our company, there has arisen a little different picture from what existed when you were here, so I wanted to tell you about it;since you already understand our situation here, I thought I could explain the matter to you with a considerable less effort than to some one who knew nothing of our present predicament.

I think that possibly we mentioned this matter casually while you were here but at that time we were at a loss as to just how the situation might be handled, but since you were here I have been doing considerable investigating and I learn that we are in a position to lease the property lying immediately East of the Grandpier thact and that would give us a very appreciable amount of ore reserves over and above what we were able to show at the present time. Of coarse it wouldnt mean anything to us to have this additional territory unless we were more or less certainthat we could get a small loan to finance the erection of a flotation plant. Even if we had a mile of that fault and still had no plant, you can appreciate the condition we would still be in.

After studying the enclosed sketch which is outlined from recent survey data, would you think it advisible for us to lease this property subject to our getting a government loan and make application for such a loan or do you think our reserves would still be inadequate?

Please give me your idea on this matter at your convenience. If you wish to refer to our exploratory application it has been given the Serial No. M.S.2764 and DEMA-2246.

Wishing you much success in your undertakings, I am

Very truly yours,

Omar R. Austin

Omar R. Austin

PS.- The territory bounded by the shaded line would be the known ore body provided we can get the property above indicated. This would give give us an ore reserve of aproximately 136,000 tons with a possible thousand feet of mineralization to the west of us which if it followed the same average thickness and depth as the known ore body, would yield close to another 100,00 tons additional, which wouldnt be a bad ore body, you think.

I rec'd your letter and map yesterday, Thanks. As you will see by the above serial numbers, The Department has already received our application.

xxxxxxxxxxxxxxx

College Park, Maryland

December 14, 1951

Mr. Omar Austin
R. D. #2
Elizabethtown, Illinois

Dear Omar:

I just returned to the office after a 10-day trip to New England. We talked some of a swap with Douglas for their rights on the Empire fault for Grandpier rights on the Douglas fault. Of course it would seem a natural conclusion with ore in Empire tract and Redd tract and carrying on in Grandpier that it should be in the Douglas. But, the Douglas ground has never been prospected on the Empire fault, from my remembrance of the picture.

For ore reserves to justify the construction of a mill we would need more assurance than mere conjecture. It would doubtlessly add greatly to the picture, if you had this ground and we amended the other drilling to include the Empire fault on the Douglas property.

By the same token the Douglas fault on the Grandpier has good possibilities and I can not definitely state which potentiality would be of the greater advantage to Grandpier. Just on a hunch I would say the Empire fault on Douglas.

I was wondering what had happened to the application as I thought that you were going to send it to me and I'd forward it to Washington after being certain it was all O.K.

Best wishes for the Holiday Season for all the Austins. I'll be back for that corn pone one of these days.

Sincerely yours,

G. L. Neumann
Mining Engineer

[illegible]

Copy for [illegible]

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

December 17, 1951

Memorandum

To: L. G. Hotk, Defense Minerals Exploration Administration

From: H. W. Davis, Bureau of Mines

Subject: DMEA-2246, Application of Grandpier Mining Corp. for Government assistance in exploration for fluorspar on tract in Pope County, Illinois, total cost estimated at $7,400

The subject property yielded a relatively small tonnage of fluorspar in 1950-1951 and applicant estimates a reserve of 13,500 tons of ore blocked out. The property is near the Empire mine, which has been a substantial producer in the past. Therefore, the probability appears good that a worthwhile reserve of ore might be found by an exploration program.

It is suggested, however, that the application be referred to the field team for general information and comments and, if the field team deems necessary, a field investigation be made.

H. W. Davis

H. W. Davis

FILE COPY
Surname:

Davis
Crumdale

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

December 17, 1951

Memorandum

To: L. G. Hock, Defense Minerals Exploration Administration

From: H. W. Davis, Bureau of Mines

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H. W. Davis

HWDavis:cb

Copy to: G. W. Josephson
H. W. Davis
R. E. Van Alstine
Files ✓

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

December 17, 1951

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H. W. Davis

3159

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

December 17, 1951

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H. W. Davis

HWDavis:cb

Copy to: G. W. Josephson
H. W. Davis
R. E. Van Alstine
Files

Mr. Oscar R. Austin, Sec-Treas.
Grandpier Mining Corporation
R.F.D. #2
Elizabethtown, Illinois

Re: Docket No. 2246
Grandpier Mine

Dear Mr. Austin:

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On receipt of the data and documents listed above, we will be prepared to give further consideration to your application.

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

Enclosures-7

FBBlakemore/mch
12/4/51

cc to: Adm. Reading File
Reports and Records
Mr. Davis
Region VIII (2)
Mr. Mittendorf
Mr. Blakemore
Mr. VanAtine
Docket

Subject: DMEA-2246
Re: Exploration Loan
Grandpier Mine

Mr. Oscar R. Austin, Sec'y.-Treasurer
R. F. D. # 2
Elizabethtown, Illinois

My dear Mr. Austin:

This will acknowledge receipt of your application dated November 6, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2246 and referred to the Non-Metallics Branch.

Kindly refer to DMEA-2246 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Reports & Records Unit

7862

MF-200
(June 1951)

DMFA-2246

Docket No. XXXX

Commodity Fluorspar

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DOCKET COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Grandpier Mining Corporation, an Illinois Corporation Elizabethtown, Illinois

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Illinois, County of Pope described as follows: [3] A leased tract of land covering the northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section thirty-four (34) Township eleven (11) South, Range seven (7) East of the principal meridian. The right to work and mine the land is more fully described in Annex I attached hereto.

with respect to which the Operator represents and undertakes: [4]

(*a*) ~~That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached.~~

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] fluorspar; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] six (6) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $3,700.00, which is 50 percent of the agreed estimated total cost of this project, $7,400.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Grandpier Mining Corporation
(Operator)

By Acting Administrator, Defense Minerals Exploration Administration

By President

By Secretary

U. S. GOVERNMENT PRINTING OFFICE 16—64168-1

ANNEX I

The right to work and mine the property is contained in a Mining Sub-lease Agreement entered into the 18th day of August 1949 by and between Louis J. Gaskins, sub-lessor and Calvin Stacey, Wayne M. Kaster, Omar R. Austin and Kenneth F. Austin, the sub-lessee. The sub-lessee in turn assigned the lease to the Grandpier Mining Corporation in accordance with a Transfer, Assignment and Acceptance Agreement, dated December 27, 1949, at Elizabethtown, Illinois. A slight modification is contained in a Supplemental Agreement dated November 7, 1950. Title to the surface of the land, according to the sub-lease is in the United States of America.

EXPLORATION PROJECT CONTRACT
THE GRANDPIER MINING CORPORATION
DOCKET NO. DMEA-2246

EXHIBIT "A"

Statement of the Work

The purpose of the project is to explore for fluorspar ore along a length of 1,000 feet of the "Empire Fault" extending to the southwest of the present mine workings.

Four diamond drill holes are to be drilled at 200-foot intervals along the fault, inclined at an angle of 45° and drilled to depths of approximately 550 feet, a total footage of approximately 2,200 feet. Cores shall be taken, a careful log kept on each hole, and tests and samples assayed for fluorspar and other strategic minerals, such as lead and zinc.

Estimated Costs of the Project

The estimated total cost of the project is $7,400 distributed into three major items as the following:

Drilling contract, 2,200 feet @ $3.00/ft.	$6,600.00	
Extra for grouting	400.00	
Assaying and core handling	400.00	
Estimated total cost of the project		$7,400.00

The Government's contribution shall be 50 percent of the total cost and not to exceed $3,700.00. The Operator's contribution shall be a like amount, 50 percent.

Three maps attached:- Fig. 2, Fig. 3, and Fig. 4.

MF-200
(June 1951)

DMEA-2246

Docket No. XXXX

Commodity Fluorspar

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXTRA COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Grandpier Mining Corporation, an Illinois Corporation Elizabethtown, Illinois

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Illinois, County of Pope described as follows: [3] A leased tract of land covering the northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section thirty-four (34) Township eleven (11) South, Range seven (7) East of the principal meridian. The right to work and mine the land is more fully described in Annex I attached hereto.

with respect to which the Operator represents and undertakes: [4]

(*a*) ~~That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:~~

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] fluorspar; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] six (6) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $3,700.00, which is 50 percent of the agreed estimated total cost of this project, $7,400.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Grandpier Mining Corporation
(Operator)

By Acting Administrator, Defense Minerals Exploration Administration

By President

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

By Secretary

ANNEX I

The right to work and mine the property is contained in a Mining Sub-lease Agreement entered into the 18th day of August 1949 by and between Louis J. Gaskins, sub-lessor and Calvin Stacey, Wayne M. Koster, Omar R. Austin and Kenneth F. Austin, the sub-lessee. The sub-lessee in turn assigned the lease to the Grandpier Mining Corporation in accordance with a Transfer, Assignment and Acceptance Agreement, dated December 27, 1949, at Elizabethtown, Illinois. A slight modification is contained in a Supplemental Agreement dated November 7, 1950. Title to the surface of the land, according to the sub-lease is in the United States of America.

EXPLORATION PROJECT CONTRACT
THE GRANDPINE MINING CORPORATION
DOCKET NO. DMEA-2246

EXHIBIT "A"

Statement of the Work

The purpose of the project is to explore for fluorspar ore along a length of 1,000 feet of the "Empire Fault" extending to the southwest of the present mine workings.

Four diamond drill holes are to be drilled at 200-foot intervals along the fault, inclined at an angle of 45° and drilled to depths of approximately 550 feet, a total footage of approximately 2,200 feet. Cores shall be taken, a careful log kept on each hole, and tests and samples assayed for fluorspar and other strategic minerals, such as lead and zinc.

Estimated Costs of the Project

The estimated total cost of the project is $7,400 distributed into three major items as the following:

Drilling contract, 2,200 feet @ $3.00/ft.	$6,600.00	
Extra for grouting	400.00	
Assaying and core handling	400.00	
Estimated total cost of the project		$7,400.00

The Government's contribution shall be 50 percent of the total cost and not to exceed $3,700.00. The Operator's contribution shall be a like amount, 50 percent.

Three maps attached:- Fig. 2, Fig. 3, and Fig. 4.

MF-200
(June 1951)

DMA-2046

Docket No. DMA

Commodity Fluorspar

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

FINANCE OFFICE'S COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Grenbier Mining Corporation, an Illinois Corporation Elizabethtown, Illinois

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Illinois, County of Pope described as follows: [3] A leased tract of land covering the Northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section thirty-four (34) Township eleven (11) South, Range seven (7) East of the principal meridian. The right to work and mine the land is more fully described in Annex I attached hereto.

with respect to which the Operator represents and undertakes: [4]

(*a*) ~~That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:~~

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] Fluorspar; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] six (6) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

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Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

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Executed in sextuplicate the day and year first above written.

Grandpier Mining Corporation

(Operator)

By President

By Secretary

THE UNITED STATES OF AMERICA

By Acting Administrator, Defense Minerals Exploration Administration

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

ANNEX I

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EXPLORATION PROJECT CONTRACT
THE GRANDPIER MINING CORPORATION
DOCKET NO. DMEA-2246

EXHIBIT "A"

Statement of the Work

The purpose of the project is to explore for fluorspar ore along a length of 1,000 feet of the "Empire Fault" extending to the southwest of the present mine workings.

Four diamond drill holes are to be drilled at 200-foot intervals along the fault, inclined at an angle of 45° and drilled to depths of approximately 550 feet, a total footage of approximately 2,200 feet. Cores shall be taken, a careful log kept on each hole, and tests and samples assayed for fluorspar and other strategic minerals, such as lead and zinc.

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Estimated total cost of the project		$7,400.00

The Government's contribution shall be 50 percent of the total cost and not to exceed $3,700.00. The Operator's contribution shall be a like amount, 50 percent.

Three maps attached:- Fig. 2, Fig. 3, and Fig. 4.

MF-200
(June 1951)

DMFA-2246

Docket No. ~~XXX~~ _____
Commodity Fluorspar

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

FIELD TEAM'S COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195___, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Grandpier Mining Corporation, an Illinois Corporation Elizabethtown, Illinois

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Illinois, County of Pope described as follows: [3] A leased tract of land covering the Northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section thirty-four (34) Township eleven (11) South, Range seven (7) East of the principal meridian. The right to work and mine the land is more fully described in Annex I attached hereto.

with respect to which the Operator represents and undertakes: [4]

(*a*) ~~That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached.~~

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] Fluorspar; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] six (6) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Any additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute currently its agreed pro rata share, are listed in Exhibit "A" attached hereto. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro rata share.

6. *Operating equipment.* Any operating equipment to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or depreciation, as the case may be, is listed under appropriate headings in Exhibit "A" attached hereto. As to equipment purchased for the project, the Government will contribute its agreed pro rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro rata share.

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[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* An itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project is set forth in Exhibit "A" attached hereto.

9. *Rehabilitation and repairs.* A statement of the cost of any necessary rehabilitation or repairs to put existing facilities, buildings, installations, and fixtures into useful and operable condition and which are to be allowed as costs of the project is included in Exhibit "A."

10. *Allowable costs of the project.* The costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, analytical work, accounting, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in this contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, taxes, or any other indirect costs not expressly allowed by these provisions, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

12. *Progress reports.* The Operator shall provide the Government with monthly reports of work performed under the contract upon forms to be provided by the Government. Each monthly progress report shall bear the certification of the Operator and shall constitute the Operator's invoice of costs incurred on the project during the period covered by the report.

13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $3,700.00, which is 50 percent of the agreed estimated total cost of this project, $7,400.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

Grandpier Mining Corporation
(Operator)

By President

By Secretary

THE UNITED STATES OF AMERICA

By Acting Administrator, Defense Minerals Exploration Administration

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

ANNEX I

The right to work and mine the property is contained in a Mining Sub-lease Agreement entered into the 18th day of August 1949 by and between Louie J. Gaskins, sub-lessor and Calvin Stacey, Wayne M. Koster, Omar R. Austin and Kenneth F. Austin, the sub-lessee. The sub-lessee in turn assigned the lease to the Grandpier Mining Corporation in accordance with a Transfer, Assignment and Acceptance Agreement, dated December 27, 1949, at Elizabethtown, Illinois. A slight modification is contained in a Supplemental Agreement dated November 7, 1950. Title to the surface of the land, according to the sub-lease is in the United States of America.

EXPLORATION PROJECT CONTRACT
THE GRANDPIER MINING CORPORATION
DOCKET NO. DMRA-2246

EXHIBIT "A"

Statement of the Work

The purpose of the project is to explore for fluorspar ore along a length of 1,000 feet of the "Empire Fault" extending to the southwest of the present mine workings.

Four diamond drill holes are to be drilled at 200-foot intervals along the fault, inclined at an angle of 45° and drilled to depths of approximately 550 feet, a total footage of approximately 2,200 feet. Cores shall be taken, a careful log kept on each hole, and tests and samples assayed for fluorspar and other strategic minerals, such as lead and zinc.

Estimated Costs of the Project

The estimated total cost of the project is $7,400 distributed into three major items as the following:

Drilling contract, 2,200 feet @ $3.00/ft.	$6,600.00	
Extra for grouting	400.00	
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Estimated total cost of the project		$7,400.00

The Government's contribution shall be 50 percent of the total cost and not to exceed $3,700.00. The Operator's contribution shall be a like amount, 50 percent.

Three maps attached:- Fig. 2, Fig. 3, and Fig. 4.

MF-200
(June 1951)

DMEA-2246

Docket No. DMA

Commodity Fluorspar

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

OPERATOR'S COPY

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] The Grandpier Mining Corporation, an Illinois Corporation Elizabethtown, Illinois

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1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Illinois, County of Pope described as follows: [3] A leased tract of land covering the Northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section thirty-four (34) Township eleven (11) South, Range seven (7) East of the principal meridian. The right to work and mine the land is more fully described in Annex I attached hereto.

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(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for [5] Fluorspar; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] six (6) months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

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Executed in sextuplicate the day and year first above written.

Grandpier Mining Corporation
(Operator)

By President

By _____
Secretary

THE UNITED STATES OF AMERICA

By Acting Administrator, Defense Minerals Exploration Administration

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

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EXPLORATION PROJECT CONTRACT
THE GRANDPIER MINING CORPORATION
DOCKET NO. DMEA-2246

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Three maps attached:- Fig. 2, Fig. 3, and Fig. 4.

MF-200
(June 1951)

DMEA-2246
Docket No. ~~XXX~~
Commodity Fluorspar

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

GOVERNMENT'S COPY

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13. *Payment to the Operator.* The monthly progress report (invoice), to the extent approved by the Government, shall be processed for payment by the Government. Payment shall be made in the amount of 50 percent of the approved costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $3,700.00, which is 50 percent of the agreed estimated total cost of this project, $7,400.00.

14. *Final reports by Operator.* Upon completion of the project or termination of this contract, the Operator shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

15. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter, shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent for each additional full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the mineral deposit which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

16. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

17. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

Grandpier Mining Corporation
(Operator)

By Acting Administrator, Defense Minerals Exploration Administration

By President

U. S. GOVERNMENT PRINTING OFFICE 16—64066-2

By _____
Secretary

ANNEX I

The right to work and mine the property is contained in a Mining Sub-lease Agreement entered into the 18th day of August 1949 by and between Louie J. Gaskins, sub-lessor and Calvin Stacey, Wayne M. Koster, Omar R. Austin and Kenneth F. Austin, the sub-lessee. The sub-lessee in turn assigned the lease to the Grandpier Mining Corporation in accordance with a Transfer, Assignment and Acceptance Agreement, dated December 27, 1949, at Elizabethtown, Illinois. A slight modification is contained in a Supplemental Agreement dated November 7, 1950. Title to the surface of the land, according to the sub-lease is in the United States of America.

EXPLORATION PROJECT CONTRACT
THE GRANDPIER MINING CORPORATION
DOCKET NO. DMEA-2246

EXHIBIT "A"

Statement of the Work

The purpose of the project is to explore for fluorspar ore along a length of 1,000 feet of the "Empire Fault" extending to the southwest of the present mine workings.

Four diamond drill holes are to be drilled at 200-foot intervals along the fault, inclined at an angle of 45° and drilled to depths of approximately 550 feet, a total footage of approximately 2,200 feet. Cores shall be taken, a careful log kept on each hole, and tests and samples assayed for fluorspar and other strategic minerals, such as lead and zinc.

Estimated Costs of the Project

The estimated total cost of the project is $7,400 distributed into three major items as the following:

Drilling contract, 2,200 feet @ $3.00/ft.	$6,600.00	
Extra for grouting	400.00	
Assaying and core handling	400.00	
Estimated total cost of the project		$7,400.00

The Government's contribution shall be 50 percent of the total cost and not to exceed $3,700.00. The Operator's contribution shall be a like amount, 50 percent.

Three maps attached:- Fig. 2, Fig. 3, and Fig. 4.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. D.M.E.A. 2246

Date received 11-21-51

Participation MS - 2704

GRANDPIER MINING CORPORATION
R.F.D.#2
ELIZABETHTOWN, ILLINOIS.

Name and address of applicant

Date 11-6-1951

FILL IN THIS BLOCK

Date of application November 6, 1951

Estimated cost $7,400.00

Mineral or metal CaF_2-- Zn — Pb

Percentage of Government participation 50% $3,700.00

Location of mine NW¼ of NW¼ of Sec. 34, T 11 S, R 7 E. Pope County, Ill.

Date of filing MF-100 Nov. 6, 1951.

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D.C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Drilling by Contract.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    No Cost (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Answered in Question 21 above.

CERTIFICATION

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

GRANDPIER MINING CORPORATION
(Name of company)

By Oscar R. Austin
(Signature of authorized official)

11-6-1951
(Date)

Sec.-Treas. & Registered Officer.
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Questions 1 to 5 inclusive are answered in Form MF-100 accompanying this application.

6. If owner, state what claims, liens, or encumberances, if any are against the property.
(Ans) Not owner.

7. If Lessee, attach a copy of the lease and state if it is in good standing.
(Ans) The lease is in good standing and a copy is attached.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

CURRENT FINANCIAL STATEMENT

Assets	Total current assets	None	
	Plant used in business		
	Land	$None	
	Buildings	$3,000.00	
	Machinery	10,000.00	
	Equipment & Fixtures	6,000.00	
	Less reserve for depreciation	None	
			$19,000.00
	Other assets		
	Ore reserves 13,500 tons @ $1.00/ton		13,500.00
	Total assets		$32,500.00

LIABILITIES

Liabilities	Notes payable		
	Banks	$1,200.00	
	Stockholders	1,000.00	
	Accounts payable	5,000.00	
	Total Current Liabilities		$7,200.00
	Common Stock	$20,000.00	
	Surplus	5,300.00	
	Total		$25,300.00
	Total Liabilities		$32,500.00

PROFIT AND LOSS STATEMENT

OPERATING COSTS:	Royalty (20%)	$4,275.93
	Compensation Insurance	2,522.19
	SS., Withholding & Unemployment tax	1,946.26
	Mining (1,623/tons @ $4.50/ton)	7,303.00
	Hauling (1,313/tons @ $1.50/ton)	1,970.00
	Milling cost, ~~[illegible]~~ own mill (824 tons @ $1.45/ton)	1,194.00
	* Milling cost, Mahoning mill (46 tons @ $8.50/ton)	391.00
	Supervisory salary (Calvin Stacey)	2,092.00
DEVELOPMENT COSTS:	90' Shaft rehabilitation	666.00
	228' Shaft sinking @ $30.00/foot	6,840.00
	40' Crosscut @ $15.00/foot	600.00
	367' D.Drilling U.G. @ $3.00/foot	1,101.00
	** 1,266' D.Drilling Surface @ $3.00/foot	$3,797.00
	Total	$30,510.38

* Not entered into totals-deducted before settlement.

** Not entered into totals-accomplished before incorporating.

8-Continued-

MACHINERY (Mine)	(Hoist (used) - - - - - - - - - - - - - - -	$ 400.00	
	(Hoist motor (rebuilt) - - - - - - - - - -	400.00	
	(120 HP Herculese Diesel DC to (60 KW. 220-3-60 A.C.Generator - - - - -	3,600.00	
	(Double drum electric slusher hoist - - -	600.00	
	("Siroco" Blower - - - - - - - - - - - - - -	300.00	
	(Sinker pump (150gpm-250 ft.head - - - - -	400.00	
	(" " (150 gpm-150 ft. head - - - -	300.00	
	(Station pump (150 gpm-150 ft. head - - - -	300.00	
	(Compressor (used) 165 cu.fpm. - - - - - - -	400.00	
	(80 HP Continental Industrial Motor - - - -	600.00	
	(		
(Mill)	(Crusher and Motor - - - - - - - - - - - - -	600.00	
	(Jigg and Motor - - - - - - - - - - - - - - -	1,200.00	
	(Classifier - - - - - - - - - - - - - - - - -	500.00	
	(Conveyor - - - - - - - - - - - - - - - - - -	200.00	
	Total Machinery - - - -		$10,000.00
BUIDINGS & EQUIPMENT	(Headframe & Bins - - - - - - - - - - - - -	$1,500.00	
	(Hoist cable (450 ft. @ $1.00/ft.) - - -	450.00	
	(Galv. Blower Pipe (350ft x 10") - - - - -	350.00	
	(300' of 10" Ventura tube - - - - - - - - -	300.00	
	Slusher blade and accessories - - - - - - -	500.00	
	(AC Switchboard & automatic controlls - -	600.00	
	(Two tons #20 Rail - - - - - - - - - - - -	250.00	
	(400' 3" Standard pipe - - - - - - - - - -	250.00	
	(500' 2" " " - - - - - - - - - -	150.00	
	(300' 3 con. #2 Electric cable- - - - -	450.00	
	(Air receiver 3'x 10' (200# WP) - - - -	600.00	
	(Sullivan Jackhammer - - - - - - - - - - -	300.00	
	(I.R.Stoper - - - - - - - - - - - - - - - -	300.00	
	(Hoist house 16x30x9------4,320 cu.ft.		
	(Shop 12x30x9 ---------- 3,240 cu. ft.		
	(Mill 30x40x18.5 ------- 22,340 cu. ft.		
	(Total - - - - - - 30,000 cu.ft.	$3,000.00	
	@ $0.10/M cu.ft. - - - - - - - -		
	Total - - - - - - - - - - - - - - -		$9,000.00
	Total Expenditures - - - - - - - - - - - -		$ 49,510.38

RECEIPTS

(Capitol Stock - - - - - - - - - - - - - -	$20,000.00	
(Note at bank - - - - - - - - - - - - - - -	1,200.00	
(Note to Stockholders - - - - - - - - -	1,000.00	
(*Receipts from Sales - - - - - - - -	22,310.38	
Total Receipts - - - - - - - - - -		$ 49,510.38

* NOTE-See following schedule for itimized sales receipts.

GRADE	TONS	UNIT PRICE	AMT.of SALE	
Lump	8.2	$44.50/ton	$ 367.12	
	6.6	44.81	294.22	
	7.2	43.00	309.06	
	8.4	40.00	336.80	
	8.7	45.00	389.48	
				$1,696.68
Gravel	47.9	23.00	1,101.58	
	16.1	23.00	370.76	
	8.6	23.00	197.23	
	57.1	23.00	1,313.42	
	8.6	23.00	197.11	
	23.7	23.00	543.95	
	180.7	23.00	4,156.67	
	32.6	23.00	749.80	
	49.0	25.00	1,225.88	
	36.5	25.00	911.38	
	22.8	23.00	524.52	
	15.2	23.00	349.48	
	16.5	25.00	390.90	
	14.4	20.88	400.67	
	90.0	20.00	1,800.50	
				$14,233.75

8. Continued-

GRADE	TONS	UNIT PRICE	AMT of SALE	
Mine Run or Crude	36.3	$17.09/ton	$ 620.62	
	14.5	15.00	218.33	
	15.5	11.51	178.29	
	6.0	16.62	99.97	
	34.9	10.00	349.30	
	11.9	8.90	105.64	
	25.6	9.03	231.60	
	94.2	12.15	1,141.39	
	14.3	7.90	112.18	
	15.0	10.90	163.94	
	17.5	7.87	138.09	
	17.2	12.50	215.00	
	29.3	16.70	489.78	
	66.8	7.60	504.29	
	8.4	7.70	64.37	
	8.6	8.80	75.72	
				$4,708.41
Mine run low grade.	14.2	6.50	92.62	
	33.2	6.67	221.76	
	173.6	7.50	1,302.19	
	17.0	3.24	54.97	
				1,671.54
		TOTAL SALES - - - - - - - - - -		$22,310.38

9. How much money is applicant prepared to invest in proposed project, etc.--
(Ans) A group of Grandpier Mining Corporation stockholders have an EX drill that has been used all along in the drilling previously done upon this property, that is capable of drilling this formation. This machine and labor will be available for the drilling program, at a price of $3.00 per foot.

10. Give a description of the real property that will be in any way involved in the exploration project, including any mine or operating property.
(Ans) (a) The northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven (11) South, Range Seven (7) East of the third principal meridian, located in Pope County, Illinois. Detailed description in accompanying Form MF-100, Question #2.
(b) Same as above in (a)

11. Answered in accompanying Form MF-100 Question #2
12. " " " " " " " #3.
13. State source and quantity of water.
(Ans) There is a large creek running through the western portion of this property and there is plenty of water available for any kind of mining operation as this creek os something like fifty feet between the shore lines and never goes dry. There is also available aproximately fifty gpm. in the mine if needed.
14. Describe any existing facilities, etc.--
(Ans) This wuestion is answered in #9 above.

15. State in detail how the ore could be shipped, etc.---
(Ans) Ore can be shipped by rail from either Rosiclare or Golconda, Illinois as both towns are on the Illinois Central R. R. Rosiclare is 10 milea and Golconda 14 miles from the mine. Ore cannot, under the present circumstances be milled economically, by any of the existing mills in this district as shown in the comparison table on question 19 below.
It is the hope of the applicant, that sufficient ore reserves can be developed by this exploration program to warrant the erection and operation of a suitable mill adjacent to the mine.
16. History.
(Ans) Given in accompanying Form MF-100, question 7.

17. This mine was in production from August 15, 1950 to July 9,1951 and the production is shown as Itimized Salew in question 8 above.
18. Ore or mineral reserves.
(a) Describe the ore or mineral deposit briefly.
(Ans) This is a vertical vein deposit striking N 55°East and dipping to the South-east at aproximately 75°.
(b) See accompanying Fig. 4 below.
(c) Give estimated tonnage and grade of each class of ore reserves.
(Ans) The applicant estimates a reserve of 13,500 tons blocked out, with an assay and value reading as follows: See question 19 following.

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

This ore contains valuable amounts of lead and zinc sulfides in addition to the fluorspar contents. If the applicant had an efficient mill, the ore would show a substantial profit to the operator and the Defence Program would be aided by obtaining a maximum amount of all of the critical components of this ore.Under present operating conditions the applicant shows a financial loss of $8,200.00 in one year of operation, as shown in the profit and loss statement and the comparrison tables that follow. This is due to the lack of proper milling facilities at a reasonable cost to the applicant.

An average analysis and pe r/ton value of this ore follows:

MATERIAL	PERCENT	$/ton 90% Ex.	VALUE/#	TOTAL VALUE
CaF_2	42.0	756	$0.03	$22.68
Pb	1.5	27	.15	4.05
Zn	3.5	63	.15	9.45
SiO_2	8.0	No value		
$CaCo_3$	42.0			
S	1.5			
R_2O_3	1.5			
				$36.18

COST

Mining		$ 7.00	
Milling		5.00	
Hauling (Concentrates)	Fluorspar	1.00	
" "	Sulphides	.33	
	Total	$13.33	13.33
Profit per ton of Crude Ore			$22.85

The above costs are placed much higher than the actual costs as shown in question #8 under Operating Costs, in order to offset any future rise in production costs, yet this same ore, had it been milled by the applicant, would have yielded a net profit of $22.85 instead of the following returns as received from the various existing plants now operating in this district, when sold under their purchase schedule:

PLANT "A"

3% Moisture allowed.
CaF_2 42.0% SiO_2 8.0% Eff. CaF_2 22.0%

Settlement (1) CaF_2 42.0% @ $0.20 per ###. Unit - - - - $8.40
(2) Eff. CaF_2 22.0% @ $0.40 per Eff. Unit - 8.80

COSTS (Mining - - - - - $7.00
(Hauling - - - - - 1.25
(Total - - - - - - 8.25

NET SETTLEMENT (1) $0.15
(2) 0.55

PLANT "B"

No moisture allowed. Dry weight net.
CaF_2 42.0% @ $0.20 per unit - - - - - - - - - - - - - - - - - $8.40
Pb (NO credit)
Zn 3.5% minus 1% leaves 2.5% @ $1.25 per unit - - - - - - - 3.12
Total - - - - - - - $11.52

COSTS
Mining - - - - - - $7.00
Hauling - - - - - - 1.50
Total $8.50

NET SETTLEMENT * -$3.02

19. Continued-

PLANT "C"

Dry weight.			
CaF_2	42.0%	Minus .05% equals 41.95% x .85 Equals 35.66 or 713# @ $0.022/lb. - - - - - - - - - -	$15.69
Zn	3.5%	Minus 109% equals 3.41% minus .5% equals 2.91% x .9 equals 26.2# @ 10¢/lb - - -	2.62
Pb	1.5	Minus .75% equals .75% x .8 equals 12# @ 10¢ per lb. - - - - - - - - - - - - - - - - - -	1.20
		Total	$19.51

Costs		
Mining - - - - - - - - - -	$7.00	
Hauling - - - - - - - - - -	1.25	
Mill Treatment - - - - - -	8.50	
Total	$16.75	16.75
NET SETTLEMENT - - - - - - - - - - - - - - - -		$ 2.76.

COMPARISON TABLE

	OWN MILL	PLANT "A"	PLANT "B"	PLANT "C"
Net return/ton crude ore	$22.85	(1) $0.15 (2) 0.55	$3.02	$2.76
Difference or loss to applicant		(1)$22.70 (2) 22.30	$19.83	$20.09

A mill capable of treating this ore, which is the ultimate aim of the applicant, costing $2,000.00/ton of daily capacity, could easily be paid for in five years.

20. Exploration will be conducted on a vertical fault for Fluorite, galena and sphalerite.

21. Explore 1,000 feet of the "Empire Fault" to the Southwest of the holes previously drilled Using a 200 foot interval between holes, four holes at 45° inclination to a depth of 550' will explore the deposit at the ore bearing level or horizon (300' level of mine) the remaining distance across the property.
Aproximately 2,200 feet of drilling at $3.00 per foot would cost $6,600.00 and would require about four months of favorable drilling weather to complete the drilling program, working one shift per day. (See Note Below)

22. See Fig. 4 accompanying Form MF-100

Note:

Drilling 2,200' @ $3.00/ft	$6,600.00
Grouting	400.00
Assaying + core handling cost	400.00
Total	$7,400.00

MINING SUB-LEASE AGREEMENT

This Sub-lease Agreement made and entered into this the eighteenth (18th) day of August, A.D. 1949 by and between Louie J. Gaskins, of Harrisburg, Illinois, hereinafter known as the sub-lessor, and Calvin Stacey and Wayne M. Koster, of Harrisburg, Illinois, and Omar E. Austin and Kenneth P. Austin, of Elizabethtown, Illinois, known hereinafter as the sub-lessees.

WITNESSETH: That, whereas the sub-lessor hereto, being vested with full authority and exclusive right to sub-lease the hereinafter described property and, whereas the sub-lessees desire and do hereby obtain the same rights as are vested in the sub-lessor, with reference to said property, except that the sub-lessees shall not have the right to purchase, insofar that the sub-lessor and the sub-lessees covenant and agree upon the following stipulations;

Now therefor, for and in consideration of the payment of the sum of Two Hundred Fifty Dollars ($250.00) by the sub-lessees to the sub-lessor, the receipt of which is hereby acknowledged the said sub-lessor does hereby lease unto the said sub-lessees, the following described property, to-wit:

Northwest one fourth of Northwest one fourth of Section 34 Township 11 South, Range 7 East: Pope County, Illinois, Forty acres more or less; and in this behalf the sub-lessor doth hereby sub-lease for a period of one year to the sub-lessees the exclusive right to dig, sink shafts and mine minerals in, upon, and under the above described real estate, with the right to build buildings, tipples, and roads and install mining and milling equipment, together with the right of ingress and egress to and over said property, and the said sub-lessor herein agrees that he will cooperate on an equal basis with the sub-lessees herein in the acquisition

and construction of a road whereby the above described property may be reached from the public highway, which shall be for the successful operations of mining and removing minerals upon and from the above mentioned property.

It is also agreed between all of the parties hereto that upon the termination of this sub-lease the said sub-lessees herein do hereby reserve the right and the right is hereby granted to them to remove all structures, machinery and equipment placed upon said property by said sub-lessees.

And in this behalf it is hereby specifically agreed and understood:

1. That the title to the surface of the above mentioned described premises is in the United States of America, and that all mining operations to be carried on by the lessee in this behalf are to comply with the rules and regulations of the United States Government in that behalf.

2. It is especially agreed and understood that the sub-lessees are to pay to the sub-lessor a sum in the amount of twenty per cent (20%) of the selling price as a royalty for all fluorspar and other minerals or commercial clays removed from said property during the life of this lease. It is further understood that tonnage royalty payments shall be accompanied by copies of statements or invoices from purchaser or refiners. The Sub-lessor shall have the right to examine such books, accounts, papers and records of the sub-lessees as may be necessary, in the opinion of the sub-lessor to determine the amount of tonnage royalties accruing to the sub-lessor.

3. This lease may be renewed at the option of the sub-lessees for a period of two (2) years, and at its expiration every two (2) years thereafter, providing the said sub-lessees shall have in all matters complied with all the conditions set forth herein. Said sub-lessees to give notice in writing to the sub-lessor twenty (20) days before the expiration date of their intention to so renew.

4. Royalties for all minerals are to be paid within thirty (30)

days from the date of the removal.

5. It is further agreed and understood that the sub-lessees shall begin prospecting or mining on said premises within twenty (20) days from the date hereof, and to prosecute such prospecting and mining with expediency, and that a cessation of operations for a period of thirty (30) days at one time, unless hindered by labor trouble, weather, want of market, the acts of God or causes not within the control of sub-lessees, shall forfeit this sub-lease at the option of the sub-lessor.

6. It is further agreed as a part of the consideration of this sub-lease that the said sub-lessees shall pay to the sub-lessor as an minimum royalty the sum of Twenty-Five Dollars on or before the 5th day of each succeeding month hereafter throughout and during the life of this sub-lease or any extension thereof. However, should the royalty accruing from the operations during any calendar month exceed $25.00 than and in that event, no minimum royalty payment will be required.

7. Sub-lessees agree at all times to carry workmen's Compensation and Liability Insurance sufficient to protect lessor and the sub-lessor from damage or loss, if any, on account of the sub-lessees operations hereunder.

8. It is further agreed and understood that the sub-lessees hereby agree to keep all abandoned or unused shafts or pits on said premises safely and securely closed.

9. It is further understood and agreed that the sub-lessor shall have the right to cancel this lease, without notice, and to re-enter the premises at his option in the event of the failure of the sub-lessees to perform any part of the obligation hereunder taken by them.

10. This instrument is executed in triplicate, each of which is to be taken and considered as an original, and it is understood to extend to

the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, we have hereunto set our hand and seals this the _____ day of August, A.D., 1949.

Louis J. Gaskins
sub-lessor

Wayne Foster

Calvin Stacey

Kenneth F. Austin

Omar R. Austin
sub-lessees

Subscribed and Sworn to before me this 20th day of August 1949.

W. T. Henry (JP)
Justice of Peace
Elizabethtown, Illinois

(JP) Seal.

TRANSFER, ASSIGNMENT AND ACCEPTANCE AGREEMENT
Covering a
MINING SUB-LEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS: That for and in consideration of the payment of One Dollar ($1.00) and other good and valid considerations, the receipt and sufficiency of which is hereby acknowledged, the undersigned, Omar. R. Austin, Kenneth F. Austin, Wayne M. Koster and Calvin Stacey, being the same parties to a Mining Sub-Lease Agreement bearing the date of August 18th, 1949, covering the Northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven(11) South, Range Seven (7) East of the third principle meridian, in which Louie J. Gaskins of Harrisburgh, Illinois, is mentioned as Sub-lessor and the above named parties are mentioned as Sub-lessees, have and by these presents, upon the day and date hereinafter written, conveyed, transferred and assigned all of their right title and interest in and to the above mentioned Mining Sub-Lease Agreement, to the Grandpier Mining Corporation, an Illinois Corporation with its registered office in Elizabethtown, Illinois, subject to the discretion of said corporation throughout the entire life of said Mining Sub-Lease Agreement or any extension thereof, under the terms and conditions therein contained.

The Grandpier Mining Corporation in accepting this transfer and assignment agrees to assume all the responsiblities of the former owners as set out in said Mining Sub-Lease Agreement and to save the previous owners harmless from loss or damage occasioned by any acts of said Corporation pertaining to said Mining Sub-Lease Agreement.

Dated at Elizabethtown, Illinois, this the Twenty-seventh day of December, A.D., 1949.

ASSIGNEE	ASSIGNORS
GRANDPIER MINING CORPORATION by	Omar R. Austin
Wayne M. Koster Pres.	Kenneth F. Austin
Omar R. Austin Sec.	Wayne M. Koster
	Calvin Stacey

COUNTY OF HARDIN))
STATE OF ILLINOIS) SS:

I Lewis Gibbs a Justice of the Peace, in and for said County and State, hereby certify that the parties whose names appear affixed to the foregoing instrument, personally appeared before me and signed, sealed and delivered the same as their own free and voluntary act. Dated this the 21st day of November, A.D., 1950.

Lewis Gibbs J. P
Justice of the Peace

SUPPLEMENTAL AGREEMENT

This supplemental agreement, made and entered into, this the Seventh day of November, A.D., 1950, by and between Louie J. Gaskins of Harrisburgh, Illinois, and the Grandpier Mining Corporation, and Illinois Corporation, with its registered office in Elizabethtown, Illinois, WITNESSETH, that,

WHEREAS, the said Grandpier Mining Corporation is the owner of a certain Mining Sub-Lease Agreement bearing the date of August 18th, 1949, in which agreement Louie J. Gaskins appears as Sub-Lessor and Omar. R. Austin et.al. appears as Sub-lessees, the said Grandpier Mining Corporation having acquired sied Mining Sub-Lease Agreement from the said Omar R. Austin et.al. by virtue of a Transfer, Assignment and Acceptance Agreement Dated December 27th, 1949, and

WHEREAS the said Grandpier Mining Corporation desires a change to be made in the wording of paragraph Nine (9) page three (3) of the above mentioned Mining Sub-Lease Agreement and the same is agreeable with the said Louie J. Gaskins. Now THEREFORE,

For and in consideration of the mutual interest [illegible] s of the parties he[illegible]
Paragraph Nine(9)
Agreement to read

(9) It is f[illegible]
shall have the ri[illegible]
the failure upon the part of the Sub-Lessees [illegible]
the obligations herein-undertaken by them; however, in the event of a failure upon the part of the Sub-Lessees to keep and perform any of the stipulations herein contained, the Sub-Lessor shall serve a Thirty(30) day notice, in writing, upon the Sub-Lessees, setting out the alleged failure and in the event of the failure on the part of the Sub-Lessees to comply with said failure within the time given in said notice in which to reconcile said failure, then and in that event, the said Sub-Lessor may declare this agreement forfeited and terminated.

This supplemental agreement shall in no way alter or change any other portion of the above mentioned agreement, and shall be attached to and become a part of the original agreement the same as if originally written therein.

Louie J. Gaskins

GRANDPIER MINING CORPORATION

Wayne H. Koster Pres.

Omar R. Austin Sec.

County of Hardin)
State of Illinois) SS:

I Lewis Gibbs a Justice of the Peace in and for said County andState certify that the parties whose names appear upon the foregoing instrument appeared before me and acknowledged that they signed the above instrument as their own free and voluntary act.
Dated this the 21st day of November A.D., 1950.

Lewis Gibbs J. P.

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. D.M.E.A. 2246
MS-2264

Date received 11-21-51

3664 [illegible]

[illegible]
[illegible]
[illegible], [illegible]

Name and address of applicant

Date 11-6-1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

DEFENSE MINERALS ADMINISTRATION
WASHINGTON
NOV 21 1951

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Louie J. Gaskins Pres. Harrisburgh, Ill.	Pres. (D)	None	30,000	75		7,500	?
Omar R. Austin, Elizabethtown, Ill.	(D) Sec.-Treas.	None	25,000	18		1,800	
John T. Gasking, Harrisburgh Ill.	Director	None	5,000	25		2,500	
Kenneth F. Austin Elizabethtown, Ill.	Vice. Pres (D)	None	10,000	18		1,800	
Harry W. Beltl Elizabethtown, Ill.	Director	None	5,000	18		1,800	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ 20,000.00	$ None	$ 100.00	None	None
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels, pounds, etc.)	Fluorspar Lead & Zinc	–	623	1,000	None
2. Quantity of product processed (specify unit of measure and type of process) Tons Jig Mill.	Fluorspar Lead & Zinc Ores	–	324	500	None
3. Quantity and grade of product sold or shipped (specify units of measure)	See Question # 8 & 19 hereof.				

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Yes, if suitable milling facilities can be had.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

16—63792-1

See Question #18

1. Minerals Produced:
   (a) What are the chief mine, mill or smelter products?
   (Ans) Fluorspar, Galena and Sphalerite.

   (B) What are the byproducts, if any?
   (Ans) None.

2. Name and type of mine, etc.- Grandpier Mining Corporation. Commonly called Grandpier Mine. Previously known as Burffee property. This is a shaft mine on near vertical fault.

   (a) Linear feet of shaft. (Ans) 318'.
   (b) Linear feet of crosscuts and drifts. (Ans) 250' of drift along the vein on the 300' level; 45' of crosscut on the 300' level and 80' of cross cut on the 90' level.
   (c) Linear feet of tunnels and addits. (Ans) None.
   (d) Linear feet of other mine openings. (Ans) Stoping has been done practically all along the entire length of the 300' level, to a height of from 10' to 30' above the track. (See Fig. 4 Below)
   At the present time the mine is partly flooded, since we are not operating. The mine would make aproximately 50 gpm. if allowed to flow but there has been some grouting done and has the floww cut down to about 15gpm. However, pipes were grouted in the water ways and valves placed on them for convenience in the event the water would be needed at any time. At present the valves are closed.

   The shaft is vertical and is 5' x 7' in the clear.

3. For each operation listed above supply the following:
   (a) Distance and direction from nearest town and shipping point.
   (Ans) Mine is about 10 miles Northwest from Rosiclare and 14 miles Northeast of Colconda, Illinois. Both places are located on the Illinois Central R. R.
   (b) Mining District. (Ans) Mine would be considered in the Illinois-Kentucky Fluorspar District.
   (c) Township, Section and Range. (Ans) Township 11 South, Range 7 East, Section 34. Northwest ¼, of the Northwest ¼, in Pope County, Illinois.

   (d) See (c) above. See Fig. 2 below.

4. State whether or not property is now in operation, and if in operation, by whom operated.
   (a) (Ans) This property is in operating condition but under existing circumstances, this ore cannot be economically milled by any of the existing mills in the district. (See Comparison Table, Question 19 Form MF-103) It is the hope of the applicant that sufficient ore reserves can be developed by this exploration program to warrant the erection and operation of a suitable mill adjacent to the mine. This property is controlled by the Grandpier Mining Corporation, Elizabethtown, Illinlis.

   (b) Are you operation this property as Owner, Lessee or Contractor?
   (Ans) The applicant is operating this property as lessee.

5. Number of years in production.
   (Ans) Started production in August 1950 and ceased production 7-9-1951. But will begin operations again if suitable facilities or arrangements can be had to successfully separate these ores.

6. Experience of Operators.
   (Ans) The operators of this mine, that is the managing personal have had from ten to twenty five years experience in the mining business in this district and can furnish good reference if necessary.

7. Histiry. (a) The first work done on this property was in 1937, when a shaft was sunk near the East boundry line to a depth of 90' and a crosscut driven North 75' and South 25' but these operations were too shallow to develope any ore. There was no more work done upon this property until late in 1949 when the present operators leased the property and drilled three holes along the strike of the fault from the hanging wall side on a 60° angle. The first hole bottomed at 300' vertical depth and was 35' West of the East boundry lone. (See Fig. 3 Below) The width of the vein at this point was five feet and an analysis of the core gave the following results: CaF_2 54.458%, SiO_2 9.164%, ZnS 7.330%, $CaCO_3$ 17.231%, with R_2O_3 (Undetermined).817%. The second hole was spaced 300' West from the first and cut the ore at a vertical depth of 260'. At that point the ore was only 3½' in width but there was more Zinc than Fluorspar in this core and there was no analysis

7.History (Continued)-

run on this core.
The third hole was spaced 100' West of the second hole and cut the fault at a vertidal depth of 428'.The fault at this point was 63" in horizontal width with 12" of Calcite on the hanging wall side and 10" of Zinc on the foot wall with fluorspar, lead, Zinc and calcite intermingled all inbetween, but this mixture was principally fluorspar. With this information the applicant began rehabilitating the old shaft previously sunk in 1937. This shaft was deepened to a depth of 318'. A crosscut was driven North to the fault which was 45' from the bottom of the shaft. A drift was driven Eastward 35' to the property line and West 200' from the end of the crosscut. Ore was stoped out at various places along the entire length of the drifts to a height of from 10' to 30' above the track. Some 1,625 tons of ore were mined and removed and was sold to existing spar mills either for blending or milling. In the meantime a small jig mill was erected with a hope of recovering a large portion of the lead and zinc contained in the ore and raising the grade of the fluorspar to the point that the operators would receive a fair price for the mineral constituents contained therein but this mill was insufficient to make the proper separation since the ores were so closely associated, therefore operations were suspended pending further developements. (Further light on this subject will be gained from the Comparrison Table, Question 19 Form MF-103 accompanying this Form)

(b) Since operations began on the Grandpier Property, there has been some leases obtained on the property West of Grandpier and there has been eleven holes drilled on a fault believed to parallel the Grandpier or Empire fault some six hundred feet to the south, but there has never been any drilling or otherwise exploring done on the Empire fault west of the Grandpier property. Previous to the time the Grandpier Corporation began operations, it was the general belief that the Empire fault pinched out as it approached a large hill to the West of the properties previously mined in this area, but the stockholders of the Grandpier Corporation conceived the idea that the ore did not pinch but merely dipped with the rock formations to the Westward and went under the above mentioned hill and the drilling done later proved this theory to be correct, as the enclosed sketches will show.

There has been considerable mining done on the properties lying East of the Grandpier property. The Empire Mine was opened up about one fourth mile East of the Grandpier property in 1924 and 7,840 tons of fluorspar was shipped from that property up to some time in 1927. This property was abandoned after that time until the price of Fluorspar advanced sufficiently to justify the mining of a narrow vein. The property is now being operated by the Egyptian Mining Company who has it leased from the Pierce Heirs, of Chicago.
E. A. Knight & Brother opened a mine between these two properties about the same time the Empire was first opened and later on sold out to the Redd Mining Company who are the present operators. They too, as well as the Grandpier ha ve been forced to sacrifice the lead and zinc contents of the ore mined by them because of insufficient milling facilities.

(c) There has been no private reports made concerning this property by the State Geologists or the Bureau of Mines as the applicant knows of. The State Mine Inspector examined this mine several times and always reported it in excellent working condition. The metallurgical investigations made include the analysis from the various shipments of ore sold and an average of these show an average of about 42% Fluorspar and 5% Zinc and Lead Sulphides.

See Question #18 also Fig.1 & 3 this form.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	13,500	CaF_2 42.0% Pb 1.5% Zn 3.5%	~~$36.18~~ $40.20	$36.18 90% Ex.	$13.33
Indicated (probable)	56,000	Same	Same	Same	Same

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads: See Fig. 2 & 4, this form. All roads are paved except 1 3/4 mi. gravel near the mine.

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

See Question #15 Form MF-103.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

See Question #13 Form MF-103.

15. Power:

State amount of power used, rate per hour, and source thereof. Have 60 KW Diesel Electric Set.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

Applicant used an average of 10 men while opeeating.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. Equipment is in good operation condition. See Question #8 Form MF-103 for list of Equipment.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

See Question #19 Form MF-103

CERTIFICATION

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

GRANDPIER MINING CORPORATION
(Name of company)

By Oscar R. Austin
(Signature of authorized official)

11-6-1951
(Date)

Sec-Treas. & Reg. Office
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. D.M.E.A. 2 246

Date received 11-21-51

Participation MS — 2704

GRANDPIER MINING CORPORATION
R.F.D.#2
ELIZABETHTOWN, ILLINOIS.

Name and address of applicant

Date 11-6-1951

FILL IN THIS BLOCK

Date of application November 6, 1951

Estimated cost $7,400.00

Mineral or metal CaF_2 -- Zn -- Pb

Percentage of Government participation 50% $3,700.00

Location of mine NW¼ of NW¼ of Sec. 34, T 11 S, R 7 E. Pope County, Ill.

Date of filing MF-100 Nov. 6, 1951

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

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

No Cost

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. **Answered in question 21 above.**

CERTIFICATION

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

GRANDPIER MINING CORPORATION (Name of company) — By Oscar R. Austin (Signature of authorized official)

11-6-1951 (Date) — Sec.-Treas. & Registered Officer. (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Questions 1 to 5 inclusive are answered in Form MF-100 accompanying this application.

6. If owner, state what claims, liens, or encumberances, if any are against the property.
(Ans) Not owner.

7. If Lessee, attach a copy of the lease and state if it is in good standing.
(Ans) The lease is in good standing and a copy is attached.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

CURRENT FINANCIAL STATEMENT

Assets	Total current assets	None	
	Plant used in business		
	Land	$None	
	Buildings	$3,000.00	
	Machinery	10,000.00	
	Equipment & Fixtures	6,000.00	
	Less reserve for depreciation	None	
			$19,000.00
	Other assets		
	Ore reserves 13,500 tons @ $1.00/ton		13,500.00
	Total assets		$32,500.00

LIABILITIES

Liabilities	Notes payable		
	Banks	$1,200.00	
	Stockholders	1,000.00	
	Accounts payable	5,000.00	
	Total Current Liabilities		$7,200.00
	Common Stock	$20,000.00	
	Surplus	5,300.00	
	Total		$25,300.00
	Total Liabilities		$32,500.00

PROFIT AND LOSS STATEMENT

OPERATING COSTS:	Royalty (20%)	$4,275.93
	Compensation Insurance	2,522.19
	SS., Withholding & Unemployment tax	1,946.26
	Mining (1,623/tons @ $4.50/ton)	7,303.00
	Hauling (1,313/tons @ $1.50/ton)	1,970.00
	Milling cost, ~~own mill (824 tons @ $1.45/ton)~~	
	own mill (824 tons @ $1.45/ton)	1,194.00
	* Milling cost, Mahoning mill (46 tons @ $8.50/ton)	391.00
	Supervisory salary (Calvin Stacey)	2,092.00
DEVELOPEMENT COSTS:	90' Shaft rehabilitation	666.00
	228' Shaft sinking @ $30.00/foot	6,840.00
	40' Crosscut @ $15.00/foot	600.00
	367' D.Drilling U.G. @ $3.00/foot	1,101.00
	** 1,266' D.Drilling Surface @ $3.00/foot	$3,797.00
	Total	$30,510.38

* Not entered into totals-deducted before settlement.

** Not entered into totals-incomplished before incorporating.

8-Continued-

MACHINERY (Mine)	(Hoist (used)	$ 400.00	
	(Hoist motor (rebuilt)	400.00	
	(120 HP Herculese Diesel DC to (60 KW. 220-3-60 A.C.Generator	3,600.00	
	(Double drum electric slusher hoist	600.00	
	("Siroco" Blower	300.00	
	(Sinker pump (150gpm-250 ft.head	400.00	
	(" " (150 gpm-150 ft. head	300.00	
	(Station pump (150 gpm-150 ft. head	300.00	
	(Compressor (used) 165 cu.fpm.	400.00	
	(80 HP Continental Industrial Motor	600.00	
	(		
(Mill)	(Crusher and Motor	600.00	
	(Jigg and Motor	1,200.00	
	(Classifier	500.00	
	(Conveyor	200.00	
	Total Machinery		$10,000.00
BUIDINGS & EQUIPMENT	(Headframe & Bins	$1,500.00	
	(Hoist cable (450 ft. @ $1.00/ft.)	450.00	
	(Galv. Blower Pipe (350' x 10")	350.00	
	(300' of 10" Ventura tube	300.00	
	Slusher blade and accessories	500.00	
	(AC Switchboard & automatic controlls	600.00	
	(Two tons #20 Rail	250.00	
	(400' 3" Standard pipe	250.00	
	(500' 2" " "	150.00	
	(300' 3 con. #2 Electric cable	450.00	
	(Air receiver 3'x 10' (200# WP)	600.00	
	(Sullivan Jackhammer	300.00	
	(I.R.Stoper	300.00	
	(Hoist house 16x30x9 — 4,320 cu.ft.		
	(Shop 12x30x9 — 3,240 cu. ft.		
	(Mill 30x40x18.5 — 22,340 cu. ft.		
	(Total — 30,000 cu.ft.	$3,000.00	
	@ $0.10/M cu.ft.		
	Total		$9,000.00
	Total Expenditures		$ 49,510.38

RECEIPTS

(Capitol Stock	$20,000.00	
(Note at bank	1,200.00	
(Note to Stockholders	1,000.00	
(*Receipts from Sales	22,310.38	
Total Receipts		$ 49,510.38

* NOTE-See following schedule for itimized sales receipts.

GRADE	TONS	UNIT PRICE	AMT.of SALE	
Lump	8.2	$44.50/ton	$ 367.12	
	6.6	44.81	294.22	
	7.2	43.00	309.06	
	8.4	40.00	336.80	
	8.7	45.00	389.48	
				$1,696.68
Gravel	47.9	23.00	1,101.58	
	16.1	23.00	370.76	
	8.6	23.00	197.23	
	57.1	23.00	1,313.42	
	8.6	23.00	197.11	
	23.7	23.00	543.95	
	180.7	23.00	4,156.67	
	32.6	23.00	749.80	
	49.0	25.00	1,225.88	
	36.5	25.00	911.38	
	22.8	23.00	524.52	
	15.2	23.00	349.48	
	16.5	25.00	390.90	
	14.4	20.88	400.67	
	90.0	20.00	1,800.50	
				$14,233.75

8. Continued-

GRADE	TONS	UNIT PRICE	AMT of SALE	
Mine Run or Crude	36.3	$17.09/ton	$ 620.62	
	14.5	15.00	218.33	
	15.5	11.51	178.29	
	6.0	16.62	99.97	
	34.9	10.00	349.30	
	11.9	8.90	105.64	
	25.6	9.03	231.60	
	94.2	12.15	1,141.39	
	14.3	7.90	112.18	
	15.0	10.90	163.94	
	17.5	7.87	138.09	
	17.2	12.50	215.00	
	29.3	16.70	489.78	
	66.8	7.60	504.29	
	8.4	7.70	64.37	
	8.6	8.80	75.72	
				$4,708.41
Mine run low grade.	14.2	6.50	92.62	
	33.2	6.67	221.76	
	173.6	7.50	1,302.19	
	17.0	3.24	54.97	
				1,671.54
		TOTAL SALES - - - - - - - - - -		$22,310.38

9. How much money is applicant prepared to invest in proposed project, etc.--
(Ans) A group of Grandpier Mining Corporation stockholders have an EX drill that has been used all along in the drilling previously done upon this property, that is capable of drilling this formation. This machine and labor will be available for the drilling program, at a price of $3.00 per foot.

10. Give a description of the real property that will be in any way involved in the exploration project, including any mine or operating property.
(Ans) (a) The northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven (11) South, Range Seven (7) East of the third principal meridian, located in Pope County, Illinois. Detailed description in accompanying Form MF-100, Question #2.
(b) Same as above in (a)

11. Answered in accompanying Form MF-100 Question #2
12. " " " " " " " #3.
13. State source and quantity of water.
(Ans) There is a large creek running through the western portion of this property and there is plenty of water available for any kind of mining operation as this creek os something like fifty feet between the shore lines and never goes dry. There is also available aproximately fifty gpm. in the mine if needed.
14. Describe any existing facilities, etc.--
(Ans) This wuestion is answered in #9 above.

15. State in detail how the ore could be shipped, etc.---
(Ans) Ore can be shipped by rail from either Rosiclare or Golconda, Illinois as both towns are on the Illinois Central R. R. Rosiclare is 10 milea and Golconda 14 miles from the mine. Ore cannot, under the present circumstances be milled economically, by any of the existing mills in this district as shown in the comparison table on question 19 below.
It is the hope of the applicant, that sufficient ore reserves can be developed by this exploration program to warrant the erection and operation of a suitable mill adjacent to the mine.
16. History.
(Ans) Given in accompanying Form MF-100, question 7.

17. This mine was in production from August 15, 1950 to July 9,1951 and the production is shown as Itimized Salew in question 8 above.
18. Ore or mineral reserves.
(a) Describe the ore or mineral deposit briefly.
(Ans) This is a vertical vein deposit striking N 55°East and dipping to the South-east at aproximately 75°.
(b) See accompanying Fig. 4 below.
(c) Give estimated tonnage and grade of each class of ore reserves.
(Ans) The applicant estimates a reserve of 13,500 tons blocked out, with an assay and value reading as follows: See question 19 following.

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

This ore contains valuable amounts of lead and zinc sulfides in addition to the fluorspar contents. If the applicant had an efficient mill, the ore would show a substantial profit to the operator and the Defence Program would be aided by obtaining a maximum amount of all of the critical components of this ore. Under present operating conditions the applicant shows a financial loss of $8,200.00 in one year of operation, as shown in the profit and loss statement and the comparrison tables that follow. This is due to the lack of proper milling facilities at a reasonable cost to the applicant.

An average analysis and pe r/ton value of this ore follows:

MATERIAL	PERCENT	$/ton 90% Ex.	VALUE/#	TOTAL VALUE
CaF_2	42.0	756	$0.03	$22.68
Pb	1.5	27	.15	4.05
Zn	3.5	63	.15	9.45
SiO_2	8.0	No value		
$CaCo_3$	42.0			
S	1.5			
R_2O_3	1.5			
				$36.18

COST

Mining	$ 7.00	
Milling	5.00	
Hauling (Concentrates) Fluorspar	1.00	
" " Sulphides	.33	
Total	$13.33	13.33
Profit per ton of Crude Ore		$22.85

The above costs are placed much higher than the actual costs as shown in question #8 under Operating Costs, in order to offset any future rise in production costs, yet this same ore, had it been milled by the applicant, would have yielded a net profit of $22.85 instead of the following returns as received from the various existing plants now operating in this district, when sold under their purchase schedule:

PLANT "A"

3% Moisture allowed.
CaF_2 42.0% SiO_2 8.0% Eff. CaF_2 22.0%

Settlement (1) CaF_2 42.0% @ $0.20 per Eff. Unit - - - - $8.40
(2) Eff. CaF_2 22.0% @ $0.40 per Eff. Unit - 8.80

COSTS (Mining - - - - - $7.00
(Hauling - - - - - 1.25
(Total - - - - - - 8.25

NET SETTLEMENT (1) $0.15
(2) 0.55

PLANT "B"

No moisture allowed. Dry weight net.
CaF_2 42.0% @ $0.20 per unit - - - - - - - - - - - - - - - - - $8.40
Pb (NO credit)
Zn 3.5% minus 1% leaves 2.5% @ $1.25 per unit - - - - - - - 3.12
Total - - - - - - - - $11.52

COSTS
Mining - - - - - - $7.00
Hauling - - - - - - 1.50
Total $8.50

NET SETTLEMENT = - $3.02

19. Continued-

PLANT "C"

Dry weight.			
CaF_2	42.0%	Minus .05% equals 41.95% x .85 Equals 35.66 or 713# @ $0.022/lb. - - - - - - - - - - -	$15.69
Zn	3.5%	Minus .09% equals 3.41% minus .5% equals 2.91% x .9 equals 26.2# @ 10¢/lb - - -	2.62
Pb	1.5	Minus .75% equals .75% x .8 equals 12# @ 10¢ per lb. -	1.20
		Total	$19.51

Costs		
Mining - - - - - - - - - -	$7.00	
Hauling - - - - - - - - - -	1.25	
Mill Treatment - - - - - -	8.50	
Total	$16.75	16.75
NET SETTLEMENT - - - - - - - - - - - - - - - -		$ 2.76

COMPARISON TABLE

	OWN MILL	PLANT "A"	PLANT "B"	PLANT "C"
Net return/ton crude ore	$22.85	(1) $0.15 (2) 0.55	$3.02	$2.76
Difference or loss to applicant		(1)$22.70 (2) 22.30	$19.83	$20.09

A mill capable of treating this ore, which is the ultimate aim of the applicant, costing $2,000.00/ton of daily capacity, could easily be paid for in five years.

20. Exploration will be conducted on a vertical fault for Fluorite, galena and sphalerite.

21. Explore 1,000 feet of the "Empire Fault" to the Southwest of the holes previously drilled Using a 200 foot interval between holes, four holes at 45° inclination to a depth of 550' will explore the deposit at the ore bearing level or horizon (300' level of mine) the remaining distance across the property.
Aproximately 2,200 feet of drilling at $3.00 per foot would cost $6,600.00 and would require about four months of favorable drilling weather to complete the drilling program, working one shift per day. (See Note Below)

22. See Fig. 4 accompanying Form MF-100

Note:

Drilling 2,200' @ $3.00/ft	$ 6,600.00
Grouting	400.00
Assaying & core handling	400.00
Total	$ 7,400.00

MINING SUB-LEASE AGREEMENT

This Sub-lease Agreement made and entered into this the eighteenth (18th) day of August, A.D. 1949 by and between Louis J. Gentine, of Harrisburg, Illinois, hereinafter known as the sub-lessor, and Calvin Stacey and Wayne H. Hooter, of Harrisburg, Illinois, and Omar E. Austin and Kenneth F. Austin, of Elizabethtown, Illinois, known hereinafter as the sub-lessees.

WITNESSETH: That, whereas the sub-lessor hereto, being vested with full authority and exclusive right to sub-lease the hereinafter described property and, whereas the sub-lessees desire and do hereby obtain the same rights as are vested in the sub-lessor, with reference to said property, except that the sub-lessees shall not have the right to purchase, insofar that the sub-lessor and the sub-lessee covenant and agree upon the following stipulations:

Now therefor, for and in consideration of the payment of the sum of Two Hundred Fifty Dollars ($250.00) by the sub-lessees to the sub-lessor, the receipt of which is hereby acknowledged the said sub-lessor does hereby lease unto the said sub-lessees, the following described property, to-wit:

Northwest one fourth of Northwest one fourth of Section 34 Township 11 South, Range 7 East: Pope County, Illinois, Forty acres more or less; and in this behalf the sub-lessor doth hereby sub-lease for a period of one year to the sub-lessees the exclusive right to dig, sink shafts and mine minerals in, upon, and under the above described real estate, with the right to build buildings, tipples, and roads and install mining and milling equipment, together with the right of ingress and egress to and over said property, and the said sub-lessor herein agrees that he will cooperate on an equal basis with the sub-lessees herein in the acquisition

and construction of a road whereby the above described property may be reached from the public highway, which shall be for the successful operations of mining and removing minerals upon and from the above mentioned property.

It is also agreed between all of the parties hereto that upon the termination of this sub-lease the said sub-lessees herein do hereby reserve the right and the right is hereby granted to them to remove all structures, machinery and equipment placed upon said property by said sub-lessees.

And in this behalf it is hereby specifically agreed and understood:

1. That the title to the surface of the above mentioned described premises is in the United States of America, and that all mining operations to be carried on by the lessee in this behalf are to comply with the rules and regulations of the United States Government in that behalf.

2. It is especially agreed and understood that the sub-lessees are to pay to the sub-lessor a sum in the amount of twenty per cent (20%) of the selling price as a royalty for all fluorspar and other minerals or commercial clays removed from said property during the life of this lease. It is further understood that tonnage royalty payments shall be accompanied by copies of statements or invoices from purchaser or refiners. The Sub-lessor shall have the right to examine such books, accounts, papers and records of the sub-lessees as may be necessary, in the opinion of the sub-lessor to determine the amount of tonnage royalties accruing to the sub-lessor.

3. This lease may be renewed at the option of the sub-lessees for a period of two (2) years, and at the expiration every two (2) years thereafter, providing the said sub-lessees shall have in all matters complied with all the conditions set forth herein. Said sub-lessees to give notice in writing to the sub-lessor twenty (20) days before the expiration date of their intention to do renew.

4. Royalties for all minerals are to be paid within thirty (30)

days from the date of the removal.

5. It is further agreed and understood that the sub-lessees shall begin prospecting or mining on said premises within twenty (20) days from the date hereof, and to prosecute such prospecting and mining with expediency, and that a cessation of operations for a period of thirty (30) days at one time, unless hindered by labor trouble, weather, want of market, the acts of God or causes not within the control of sub-lessee, shall forfeit this sub-lease at the option of the sub-lessor.

6. It is further agreed as a part of the consideration of this sub-lease that the said sub-lessees shall pay to the sub-lessor as a minimum royalty the sum of Twenty-Five Dollars on or before the 5th day of each succeeding month hereafter throughout and during the life of this sub-lease or any extension thereof. However, should the royalty accruing from the operations during any calendar month exceed $25.00 then and in that event, no minimum royalty payment will be required.

7. Sub-lessees agree at all times to carry workman's Compensation and Liability Insurance sufficient to protect lessee and the sub-lessor from damage or loss, if any, on account of the sub-lessees operations hereunder.

8. It is further agreed and understood that the sub-lessees hereby agree to keep all abandoned or unused shafts or pits on said premises safely and securely closed.

9. It is further understood and agreed that the sub-lessor shall have the right to cancel this lease, without notice, and to re-enter the premises at his option in the event of the failure of the sub-lessees to perform any part of the obligation hereunder taken by them.

10. This instrument is executed in triplicate, each of which is to be taken and considered as an original, and it is understood to extend to

the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, we have hereunto set our hand and seals this the _____ day of August, A.D., 1949.

Louie J. Gaston
sub-lessor

Nevro Foster

Calvin Stacey

Kenneth F. Austin

Oscar R. Austin
sub-lessee

Subscribed and Sworn to before me this 20th day of August 1949.

W. T. Henry (JP)
Justice of Peace
Elizabethtown, Illinois

(JP) Seal.

TRANSFER, ASSIGNMENT AND ACCEPTANCE AGREEMENT
Covering a
MINING SUB-LEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS: That for and in consideration of the payment of One Dollar ($1.00) and other good and valid considerations, the receipt and sufficiency of which is hereby acknowledged, the undersigned, Omar. R. Austin, Kenneth F. Austin, Wayne M. Koster and Calvin Stacey, being the same parties to a Mining Sub-Lease Agreement bearing the date of August 18th, 1949, covering the Northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven(11) South, Range Seven (7) East of the third principle meridian, in which Louie J. Gaskins of Harrisburgh, Illinois, is mentioned as Sub-lessor and the above named parties are mentioned as Sub-lessees, have and by these presents, upon the day and date hereinafter written, conveyed, transferred and assigned all of their right title and interest in and to the above mentioned Mining Sub-Lease Agreement, to the Grandpier Mining Corporation, an Illinois Corporation with its registered office in Elizabethtown, Illinois, subject to the discretion of said corporation throughout the entire life of said Mining Sub-Lease Agreement or any extension thereof, under the terms and conditions therein contained.

The Grandpier Mining Corporation in accepting this transfer and assignment agrees to assume all the responsiblities of the former owners as set out in said Mining Sub-Lease Agreement and to save the previous owners harmless from loss or damage occasioned by any acts of said Corporation pertaining to said Mining Sub-Lease Agreement.

Dated at Elizabethtown, Illinois, this the Twenty-seventh day of December, A.D., 1949.

ASSIGNEE	ASSIGNORS
GRANDPIER MINING CORPORATION by	Omar R. Austin
Wayne M. Koster Pres.	Kenneth F. Austin
Omar R. Austin Sec.	Wayne M. Koster
	Calvin Stacey

COUNTY OF HARDIN))
STATE OF ILLINOIS) SS:

I Lewis Gibbs a Justice of the Peace, in and for said County and State, hereby certify that the parties whose names appear affixed to the foregoing instrument, personally appeared before me and signed, sealed and delivered the same as their own free and voluntary act. Dated this the 21st day of November, A.D., 1950.

Lewis Gibbs J. P
Justice of the Peace

SUPPLEMENTAL AGREEMENT

This supplemental agreement, made and entered into, this the Seventh day of November, A.D., 1950, by and between Louie J. Gaskins of Harrisburgh, Illinois, and the Grandpier Mining Corporation, and Illinois Corporation, with its registered office in Elizabethtown, Illinois, WITNESSETH, that,

WHEREAS, the said Grandpier Mining Corporation is the owner of a certain Mining Sub-Lease Agreement bearing the date of August 10th, 1949, in which agreement Louie J. Gaskins appears as Sub-Lessor and Omar R. Austin et.al. appears as Sub-lessees, the said Grandpier Mining Corporation having acquired said Mining Sub-Lease Agreement from the said Omar R. Austin et.al. by virtue of a Transfer, Assignment and Acceptance Agreement Dated December 27th, 1949, and

WHEREAS the said Grandpier Mining Corporation desires a change to be made in the wording of paragraph Nine (9) page three (3) of the above mentioned Mining Sub-Lease Agreement and the same is agreeable with the said Louie J. Gaskins. Now THEREFORE,

For and in consideration of the mutual interest of the mutual interests of the parties hereto they do and by these presents agree to supplement Paragraph Nine(9) Page three (3) of the above mentioned Mining Sub-Lease Agreement to read as follows, to wit:

(9) It is further understood and agreed that the Sub-Lessor shall have the right to cancel this lease agreement in the event of the failure upon the part of the Sub-Lessees to perform any part of the obligations herein-undertaken by them; however, in the event of a failure upon the part of the Sub-Lessees to keep and perform any of the stipulations herein contained, the Sub-Lessor shall serve a Thirty(30) day notice, in writing, upon the Sub-Lessees, setting out the alleged failure and in the event of the failure on the part of the Sub-Lessees to comply with said failure within the time given in said notice in which to reconcile said failure, then and in that event, the said Sub-Lessor may declare this agreement forfeited and terminated.

This supplemental agreement shall in no way alter or change any other portion of the above mentioned agreement, and shall be attached to and become a part of the original agreement the same as if originally written therein.

Louie J. Gaskins

GRANDPIER MINING CORPORATION

Wayne M. Koster Pres.

Omar R. Austin Sec.

County of Hardin)
State of Illinois) SS:

I Louis Gibbs a Justice of the Peace in and for said County on State certify that the parties whose names appear upon the foregoing instrument appeared before me and acknowledged that they signed the above instrument as their own free and voluntary act.
Dated this the 21st day of November A.D., 1950.

Louis Gibbs J. P.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. D.M.E.A. 2246

Date received 11-21-51

Participation MS — 27604

GRANDPIER MINING CORPORATION
R.F.D. #2
ELIZABETHTOWN, ILLINOIS.

Name and address of applicant

Date 11-6-1951

FILL IN THIS BLOCK

Date of application November 6, 1951

Estimated cost $7,400.00

Mineral or metal CaF_2 — Zn — Pb

Percentage of Government participation 50% $3,700.00

Location of mine NW¼ of NW¼ of Sec. 34, T 11 S, R 7 E. Pope County, Ill.

Date of filing MF-100 Nov. 6, 1951.

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

MINERAL EXPLORATION WASHINGTON, D.C. NOV 27 1951 8 PM

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

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

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Drilling by Contract

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

No Cost (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Answered in Question 21 above.

CERTIFICATION

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

GRANDPIER MINING CORPORATION
(Name of company)

By Oscar R. Christen
(Signature of authorized official)

11-6-1951
(Date)

Sec.-Treas. & Registered Officer.

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Questions 1 to 5 inclusive are answered in Form MP-100 accompanying this application.

6. If owner, state what claims, liens, or encumberances, if any are against the property.
(Ans) Not owner.

7. If Lessee, attach a copy of the lease and state if it is in good standing.
(Ans) The lease is in good standing and a copy is attached.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

CURRENT FINANCIAL STATEMENT

Assets	Total current assets - - - - - - - - - - -	None	
	Plant used in business		
	Land - - - - - - - - - - - - - - - - - -	None	
	Buildings - - - - - - - - - - - - - - -	$3,000.00	
	Machinery - - - - - - - - - - - - - - -	10,000.00	
	Equipment & Fixtures - - - - - - - - -	6,000.00	
	Less reserve for depreciation - - - -	None	
			$19,000.00
	Other assets		
	Ore reserves 13,500 tons @ $1.00/ton - - - - - - -		13,500.00
	Total assets - - - - - - - - - -		$32,500.00

LIABILITIES

Liabilities	Notes payable		
	Banks - - - - - - - - - - - - - - - - -	$1,200.00	
	Stockholders - - - - - - - - - - - - -	1,000.00	
	Accounts payable - - - - - - - - - - -	5,000.00	
	Total Current Liabilities		$7,200.00
	Common Stock - - - - - - - - - - - - -	$20,000.00	
	Surplus - - - - - - - - - - - - - - - -	5,300.00	
	Total - - - - - - - - - - - - - -		$25,300.00
	Total Liabilities - - - - -		$32,500.00

PROFIT AND LOSS STATEMENT

OPERATING COSTS:	Royalty (20%) - - - - - - - - - - - - - - - - -	$4,275.93
	Compensation Insurance - - - - - - - - - - - -	2,522.19
	SS., Withholding & Unemployment tax - - -	1,946.26
	Mining (1,623/tons @ $4.50/ton) - - - - - -	7,303.00
	Hauling (1,313/tons @ $1.50/ton) - - - - - -	1,970.00
	Milling cost, ~~[illegible]~~	
	own mill (824 tons @ $1.45/ton) - -	1,194.00
	* Milling cost, Mahoning mill (46 tons @ $8.50/ton) - - -	391.00
	Supervisory salary (Calvin Stacey) - - - -	2,092.00
DEVELOPMENT COSTS:	90' Shaft rehabilitation - - - - - - - - - -	666.00
	228' Shaft sinking @ $30.00/foot - - - - - -	6,840.00
	40' Crosscut @ $15.00/foot - - - - - - - - -	600.00
	367' D.Drilling U.G. @ $3.00/foot - - - -	1,101.00
	** 1,266' D.Drilling Surface @ $3.00/foot -	$3,797.00
	Total - - - - - - - - - - - - - -	$30,510.38

* Not entered into totals-deducted before settlement.

** Not entered into totals-accomplished before incorporating.

8-Continued-

MACHINERY (Mine)	(Hoist (used) - - - - - - - - - - - - - - - -	$ 400.00	
	(Hoist motor (rebuilt) - - - - - - - - - -	400.00	
	(150 HP Herculoss Diesel DC to (60 KW. 220-3-60 A.C.Generator - - - - - -	3,600.00	
	(Double drum electric slusher hoist - - -	600.00	
	("Sirocco" Blower - - - - - - - - - - - - - -	300.00	
	(Sinker pump (150gpm-250 ft.head - - - - - -	400.00	
	(" " (150 gpm-150 ft. head - - - -	300.00	
	(Station pump (150 gpm-150 ft. head - - - - -	300.00	
	(Compressor (used) 165 cu.fpm. - - - - - - -	400.00	
	(80 HP Continental Industrial Motor - - - - -	600.00	
	(		
(Mill)	(Crusher and Motor - - - - - - - - - - - - -	600.00	
	(Jigs and Motor - - - - - - - - - - - - - - -	1,200.00	
	(Classifier - - - - - - - - - - - - - - - - -	500.00	
	(Conveyor - - - - - - - - - - - - - - - - - -	200.00	
	Total Machinery - - - - -		$10,000.00
MINING & EQUIPMENT	(Headframe & Bins - - - - - - - - - - - - - -	$1,500.00	
	(Hoist cable (450 ft. @ $1.00/ft.) - - -	450.00	
	(Galv. Blower Pipe (350' x 10") - - - - - -	350.00	
	(300' of 10" Ventura tube - - - - - - - - -	300.00	
	Slusher blade and accessories - - - - - - -	500.00	
	(AC Switchboard & automatic controlls - -	600.00	
	(Two tons #20 Nail - - - - - - - - - - - -	250.00	
	(400' 3" Standard pipe - - - - - - - - - -	250.00	
	(500' 2" " " - - - - - - - - - -	150.00	
	(300' 3 con. #2 Electric cable- - - - -	450.00	
	(Air receiver 3'x 10' (200# WP) - - - -	600.00	
	(Sullivan Jackhammer - - - - - - - - - - -	300.00	
	(I.R.Stoper - - - - - - - - - - - - - - - -	300.00	
	(Hoist house 16x30x9———4,320 cu.ft.		
	(Shop 12x30x9 ———— 3,240 cu. ft.		
	(Mill 30x40x18.5 ——— 22,340 cu. ft.		
	(Total - - - - - - 30,000 cu.ft.	$3,000.00	
	@ $0.10/M cu.ft. - - - - - - - -		
	Total - - - - - - - - - - - - - - - -		$9,000.00
	Total Expenditures - - - - - - - - - - - -		$ 49,510.38

RECEIPTS

(Capitol Stock - - - - - - - - - - - - - -	$20,000.00	
(Note at bank - - - - - - - - - - - - - - -	1,200.00	
(Note to Stockholders - - - - - - - - -	1,000.00	
(*Receipts from Sales - - - - - - - -	22,310.38	
Total Receipts - - - - - - - - - -		$ 49,510.38

* NOTE-See following schedule for itimized sales receipts.

GRADE	TONS	UNIT PRICE	AMT. of SALE	
Lump	8.2	$44.50/ton	$ 367.12	
	6.6	44.81	294.22	
	7.2	43.00	309.06	
	8.4	40.00	336.80	
	8.7	45.00	389.48	
				$1,696.68
Gravel	47.9	23.00	1,101.58	
	16.1	23.00	370.76	
	8.6	23.00	197.23	
	57.1	23.00	1,313.42	
	8.6	23.00	197.11	
	23.7	23.00	543.95	
	180.7	23.00	4,156.67	
	32.6	23.00	749.60	
	49.0	25.00	1,225.88	
	36.5	25.00	911.38	
	22.8	23.00	524.52	
	15.2	23.00	349.48	
	16.5	25.00	390.90	
	14.4	28.88	400.67	
	90.0	20.00	1,800.50	
				$14,233.75

8. Continued-

GRADE	TONS	UNIT PRICE	AMT of SALE	
Mine Run or Crude	36.3	$17.09/ton	$ 620.62	
	14.5	15.00	218.33	
	15.5	11.51	178.29	
	6.0	16.62	99.97	
	34.9	10.00	349.30	
	11.9	8.90	105.64	
	25.6	9.03	231.60	
	94.2	12.15	1,141.39	
	14.3	7.90	112.18	
	15.0	10.99	163.94	
	17.5	7.87	138.09	
	17.2	12.50	215.00	
	29.3	16.70	489.78	
	66.8	7.60	504.29	
	8.4	7.70	64.37	
	8.6	8.80	75.72	
				$4,703.41
Mine run low grade.	14.2	6.50	92.62	
	33.2	6.67	221.76	
	173.6	7.50	1,302.19	
	17.0	3.24	54.97	
				1,671.54
		TOTAL SALES - - - - - - - - - -		$22,310.38

9. How much money is applicant prepared to invest in proposed project, etc.--
(Ans) A group of Grandpier Mining Corporation stockholders have an EX drill that has been used all along in the drilling previously done upon this property, that is capable of drilling this formation. This machine and labor will be available for the drilling program, at a price of $3.00 per foot.

10. Give a description of the real property that will be in any way involved in the exploration project, including any mine or operating property.
(Ans) (a) The northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven (11) South, Range Seven (7) East of the third principal meridian, located in Pope County, Illinois. Detailed description in accompanying Form MF-100, Question #2.
(b) Same as above in (a)

11. Answered in accompanying Form MF-100 Question #2
12. " " " " " " " #3.
13. State source and quantity of water.
(Ans) There is a large creek running through the western portion of this property and there is plenty of water available for any kind of mining operation as this creek os something like fifty feet between the shore lines and never goes dry. There is also available aproximately fifty gpm. in the mine if needed.
14. Describe any existing facilities, etc.--
(Ans) This question is answered in #9 above.

15. State in detail how the ore could be shipped, etc.----
(Ans) Ore can be shipped by rail from either Rosiclare or Golconda, Illinois as both towns are on the Illinois Central R. R. Rosiclare is 10 miles and Golconda 14 miles from the mine. Ore cannot, under the present circumstances be milled economically, by any of the existing mills in this district as shown in the comparison table on question 19 below.
It is the hope of the applicant, that sufficient ore reserves can be developed by this exploration program to warrant the erection and operation of a suitable mill adjacent to the mine.
16. History.
(Ans) Given in accompanying Form MF-100, question 7.

17. This mine was in production from August 15, 1950 to July 9,1951 and the production is shown as Itimized Sales in question 8 above.
18. Ore or mineral reserves.
(a) Describe the ore or mineral deposit briefly.
(Ans) This is a vertical vein deposit striking N 55° East and dipping to the South-east at aproximately 75°.
(b) See accompanying Fig. 4 below.
(c) Give estimated tonnage and grade of each class of ore reserves.
(Ans) The applicant estimates a reserve of 13,500 tons blocked out, with an assay and value reading as follows: See question 19 following.

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

This ore contains valuable amounts of lead and zinc sulfides in addition to the fluorspar contents. If the applicant had an efficient mill, the ore would show a substantial profit to the operator and the Defence Program would be aided by obtaining a maximum amount of all of the critical components of this ore. Under present operating conditions the applicant shows a financial loss of $8,200.00 in one year of operation, as shown in the profit and loss statement and the comparrison tables that follow. This is due to the lack of proper milling facilities at a reasonable cost to the applicant.

An average analysis and pe r/ton value of this ore follows:

MATERIAL	PERCENT	$/ton 90% Ex.	VALUE/#	TOTAL VALUE
CaF_2	42.0	756	$0.03	$22.68
Pb	1.5	27	.15	4.05
Zn	3.5	63	.15	9.45
SiO_2	8.0	No value		
$CaCo_3$	42.0			
S	1.5			
R_2O_3	1.5			
				$36.18

COST

Mining -	$ 7.00	
Milling -	5.00	
Hauling (Concentrates) Fluorspar - - - -	1.00	
" " Sulphides - - - -	.33	
Total - - - - - - - - -	$13.33	13.33
Profit per ton of Crude Ore - - - - - - - - - -		$22.85

The above costs are placed much higher than the actual costs as shown in question #8 under Operating Costs, in order to offset any future rise in production costs, yet this same ore, had it been milled by the applicant, would have yielded a net profit of $22.85 instead of the following returns as received from the various existing plants now operating in this district, when sold under their purchase schedule:

PLANT "A"

3% Moisture allowed.
CaF_2 42.0% SiO_2 8.0% Eff. CaF_2 22.0%

Settlement (1) CaF_2 42.0% @ $0.20 per ~~Eff~~. Unit - - - - $8.40
(2) Eff. CaF_2 22.0% @ $0.40 per Eff. Unit - 8.80

COSTS (Mining - - - - - $7.00
(Hauling - - - - - - 1.25
(Total - - - - - - 8.25

NET SETTLEMENT (1) $0.15
(2) 0.55

PLANT "B"

No moisture allowed. Dry weight net.
CaF_2 42.0% @ $0.20 per unit - - - - - - - - - - - - - - - - - $8.40
Pb (no credit)
Zn 3.5% minus 1% leaves 2.5% @ $1.25 per unit - - - - - - - 3.12
Total - - - - - - - - $11.52

COSTS
Mining - - - - - - - $7.00
Hauling - - - - - - - 1.50
Total $8.50

NET SETTLEMENT @ - $3.02

19. Continued-

PLANT "C"

Dry weight.

CaF_2	42.0%	Minus .05% equals 41.95% x .85 Equals 35.66 or 713# @ $0.022/lb. - - - - - - - - - - -	$15.69
Zn	3.5%	Minus .09% equals 3.41% minus .5% equals 2.91% x .9 equals 26.2# @ 10¢/lb - - -	2.62
Pb	1.5	Minus .75% equals .75% x .8 equals 12# @ 10¢ per lb. - - - - - - - - - - - - - - - - - - -	1.20
		Total	$19.51

Costs		
Mining - - - - - - - - - -	$7.00	
Hauling - - - - - - - - - -	1.25	
Mill Treatment - - - - - -	8.50	
Total	$16.75	16.75
NET SETTLEMENT - - - - - - - - - - - - - - - -		$ 2.76

COMPARISON TABLE

	GMB MILL	PLANT "A"	PLANT "B"	PLANT "C"
Net return/ton crude ore	$22.85	(1) $0.15 (2) 0.55	$3.02	$2.76
Difference or loss to applicant		(1)$22.70 (2) 22.30	$19.83	$20.09

A mill capable of treating this ore, which is the ultimate aim of the applicant, costing $2,000.00/ton of daily capacity, could easily be paid for in five years.

20. Exploration will be conducted on a vertical fault for Fluorite, galena and sphalerite.

21. Explore 1,000 feet of the "Empire Fault" to the Southwest of the holes previously drilled Using a 200 foot interval between holes, four holes at 45° inclination to a depth of 550' will explore the deposit at the ore bearing level or horizon (300' level of mine) the remaining distance across the property.
Aproximately 2,200 feet of drilling at $3.00 per foot would cost $6,600.00 and would require about four months of favorable drilling weather to complete the drilling program, working one shift per day. (See Note Below)

22. See Fig. 4 accompanying Form MF-100

Note: Drilling 2,200' @ $3.00/ft $6,600.00
Grouting 400.00
Assaying + Core handling charge 400.00
Total $7,400.00 ✓

MINING SUB-LEASE AGREEMENT

This Sub-lease Agreement made and entered into this the eighteenth (18th) day of August, A.D. 1949 by and between Louie J. Gaskins, of Harrisburg, Illinois, hereinafter known as the sub-lessor, and Calvin Stacey and Wayne M. Koster, of Harrisburg, Illinois, and Omar R. Austin and Kenneth F. Austin, of Elizabethtown, Illinois, known hereinafter as the sub-lessees.

WITNESSETH: That, whereas the sub-lessor hereto, being vested with full authority and exclusive right to sub-lease the hereinafter described property and, whereas the sub-lessees desire and do hereby obtain the same rights as are vested in the sub-lessor, with reference to said property, except that the sub-lessees shall not have the right to purchase, insofar that the sub-lessor and the sub-lesses covenant and agree upon the following stipulations;

Now therefor, for and in consideration of the payment of the sum of Two Hundred Fifty Dollars ($250.00) by the sub-lessees to the sub-lessor, the receipt of which is hereby acknowledged the said sub-lessor does hereby lease unto the said sub-lessees, the following described property, to-wit:

Northwest one fourth of Northwest one fourth of Section 34 Township 11 South, Range 7 East: Pope County, Illinois, Forty acres more or less; and in this behalf the sub-lessor doth hereby sub-lease for a period of one year to the sub-lessees the exclusive right to dig, sink shafts and mine minerals in, upon, and under the above described real estate, with the right to build buildings, tipples, and roads and install mining and milling equipment, together with the right of ingrees and egress to and over said property, and the said sub-lessor herein agrees that he will cooperate on an equal basis with the sub-lessees herein in the acquisition

and construction of a road whereby the above described property may be reached from the public highway, which shall be for the successful operations of mining and removing minerals upon and from the above mentioned property.

It is also agreed between all of the parties hereto that upon the termination of this sub-lease the said sub-lessees herein do hereby reserve the right and the right is hereby granted to them to remove all structures, machinery and equipment placed upon said property by said sub-lessees.

And in this behalf it is hereby specifically agreed and understood:

1. That the title to the surface of the above mentioned described premises is in the United States of America, and that all mining operations to be carried on by the lessee in this behalf are to comply with the rules and regulations of the United States Government in that behalf.

2. It is especially agreed and understood that the sub-lessees are to pay to the sub-lessor a sum in the amount of twenty per cent (20%) of the selling price as a royalty for all fluorspar and other minerals or commercial clays removed from said property during the life of this lease. It is further understood that tonnage royalty payments shall be accompanied by copies of statements or invoices from purchaser or refiners. The Sub-lessor shall have the right to examine such books, accounts, papers and records of the sub-lessees as may be neccessary, in the opinion of the sub-lessor to determine the amount of tonnage royalties accruing to the sub-lessor.

3. This lease may be renewed at the option of the sub-lessees for a period of two (2) years, and at its expiration every two (2) years thereafter, providing the said sub-lessees shall have in all matters complied with all the conditions set forth herein. Said sub-lessees to give notice in writing to the sub-lessor twenty (20) days before the expiration date of their intention to so renew.

4. Royalties for all minerals are to be paid within thirty (30)

days from the date of the removal.

5. It is further agreed and understood that the sub-lessees shall begin prospecting or mining on said premises within twenty (20) days from the date hereof, and to prosecute such prospecting and ming with expediency, and that a cessation of operations for a period of thirty (30) days at one time, unless hindered by labor trouble, weather, want of market, the acts of God or causes not within the control of sub-lessee, shall forfeit this sub-lease at the option of the sub-lessor.

6. It is further agreed as a part of the consideration of this sub-lease that the said sub-lessees shall pay to the sub-lessor as an minimum royalty the sum of Twenty-Five Dollars on or before the 5th day of each succeeding month hereafter throughout and during the life of this sub-lease or any extension thereof. However, should the royalty accruing from the operations during any calendar month exceed $25.00 than and in that event, no minimum royalty payment will be required.

7. Sub-lessees agree at all times to carry workmen's Compensation and Liability Insurance sufficient to protect lessor and the sub-lessor from damage or loss, if any, on account of the sub-lessees operations hereunder.

8. It is further agreed and understood that the sub-lessees hereby agree to keep all abandoned or unused shafts or pits on said premises safely and securely closed.

9. It is further understood and agreed that the sub-lessor shall have the right to cancel this lease, without notice, and to re-enter the premises at his option in the event of the failure of the sub-lessees to perform any part of the obligation hereunder taken by them.

10. This instrument is executed in triplicate, each of which is to be taken and considered as an original, and it is understood to extend to

the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, we have hereunto set out hand and seals this the _____ day of August, A.D., 1949.

Louie J. Gaskins
sub-lessor

Wayne Koster

Calvin Stacey

Kenneth F. Austin

Omar R. Austin
sub-lessees

Subscribed and Sworn to before me this 20th day of August 1949.

W. T. Henry (JP)
Justice of Peace
Elizabethtown, Illinois

(JP) Seal.

TRANSFER, ASSIGNMENT AND ACCEPTANCE AGREEMENT
Covering a
MINING SUB-LEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS: That for and in consideration of the payment of One Dollar ($1.00) and other good and valid considerations, the receipt and sufficiency of which is hereby acknowledged, the undersigned, Omar. R. Austin, Kenneth F. Austin, Wayne M. Koster and Calvin Stacey, being the same parties to a Mining Sub-Lease Agreement bearing the date of August 18th, 1949, covering the Northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven(11) South, Range Seven (7) East of the third principle meridian, in which Louie J. Gaskins of Harrisburgh, Illinois, is mentioned as Sub-lessor and the above named parties are mentioned as Sub-lessees, have and by these presents, upon the day and date hereinafter written, conveyed, transferred and assigned all of their right title and interest in and to the above mentioned Mining Sub-Lease Agreement, to the Grandpier Mining Corporation, an Illinois Corporation with its registered office in Elizabethtown, Illinois, subject to the discretion of said corporation throughout the entire life of said Mining Sub-Lease Agreement or any extension thereof, under the terms and conditions therein contained.

The Grandpier Mining Corporation in accepting this transfer and assignment agrees to assume all the responsiblities of the former owners as set out in said Mining Sub-Lease Agreement and to save the previous owners harmless from loss or damage occasioned by any acts of said Corporation pertaining to said Mining Sub-Lease Agreement.

Dated at Elizabethtown, Illinois, this the Twenty-seventh day of December, A.D., 1949.

ASSIGNEE		ASSIGNORS
GRANDPIER MINING CORPORATION by		Omar R. Austin
Wayne M. Koster	Pres.	Kenneth F. Austin
Omar R. Austin	Sec.	Wayne M. Koster
		Calvin Stacey

COUNTY OF HARDIN))
STATE OF ILLINOIS) SS:

I Lewis Gibbs a Justice of the Peace, in and for said County and State, hereby certify that the parties whose names appear affixed to the foregoing instrument, personally appeared before me and signed, sealed and delivered the same as their own free and voluntary act. Dated this the 21st day of November, A.D., 1950.

Lewis Gibbs J. P
Justice of the Peace

SUPPLEMENTAL AGREEMENT

This supplemental agreement, made and entered into, this the Seventh day of November, A.D., 1950, by and between Louie J. Gaskins of Harrisburgh, Illinois, and the Grandpier Mining Corporation, and Illinois Corporation, with its registered office in Elizabethtown, Illinois, WITNESSETH, that,

WHEREAS, the said Grandpier Mining Corporation is the owner of a certain Mining Sub-Lease Agreement bearing the date of August 18th, 1949, in which agreement Louie J. Gaskins appears as Sub-Lessor and Omar. R. Austin et.al. appears as Sub-lessees, the said Grandpier Mining Corporation having acquired siad Mining Sub-Lease Agreement from the said Omar R. Austin et.al. by virtue of a Transfer, Assignment and Acceptance Agreement Dated December 27th, 1949, and

WHEREAS the said Grandpier Mining Corporation desires a change to be made in the wording of paragraph Nine (9) page three (3) of the above mentioned Mining Sub-Lease Agreement and the same is agreeable with the said Louie J. Gaskins. Now THEREFORE,

For and in consideration of the mutual interest of the mutual interests of the parties hereto they do and by these presents agree to supplement Paragraph Nine(9) Page three (3) of the above mentioned Mining Sub-Lease Agreement to read as follows, to wit:

(9) It is further understood and agreed that the Sub-Lessor shall have the right to cancel this lease agreement in the event of the failure upon the part of the Sub-Lessees to perform any part of the obligations herein-undertaken by them; however, in the event of a failure upon the part of the Sub-Lessees to keep and perform any of the stipulations herein contained, the Sub-Lessor shall serve a Thirty(30) day notice, in writing, upon the Sub-Lessees, setting out the alleged failure and in the event of the failure on the part of the Sub-Lessees to comply with said failure within the time given in said notice in which to reconcile said failure, then and in that event, the said Sub-Lessor may declare this agreement forfeited and terminated.

This supplemental agreement shall in no way alter or change any other portion of the above mentioned agreement, and shall be attached to and become a part of the original agreement the same as if originally written therein.

Louie J. Gaskins

GRANDPIER MINING CORPORATION

Wayne M. Koster Pres.

Omar R. Austin Sec.

County of Hardin)
State of Illinois) SS:

I Lewis Gibbs a Justice of the Peace in and for said County andState certify that the parties whose names appear upon the foregoing instrument appeared before me and acknowledged that they signed the above instrument as their own free and voluntary act.
Dated this the 21st day of November A.D., 1950.

Lewis Gibbs J. P.

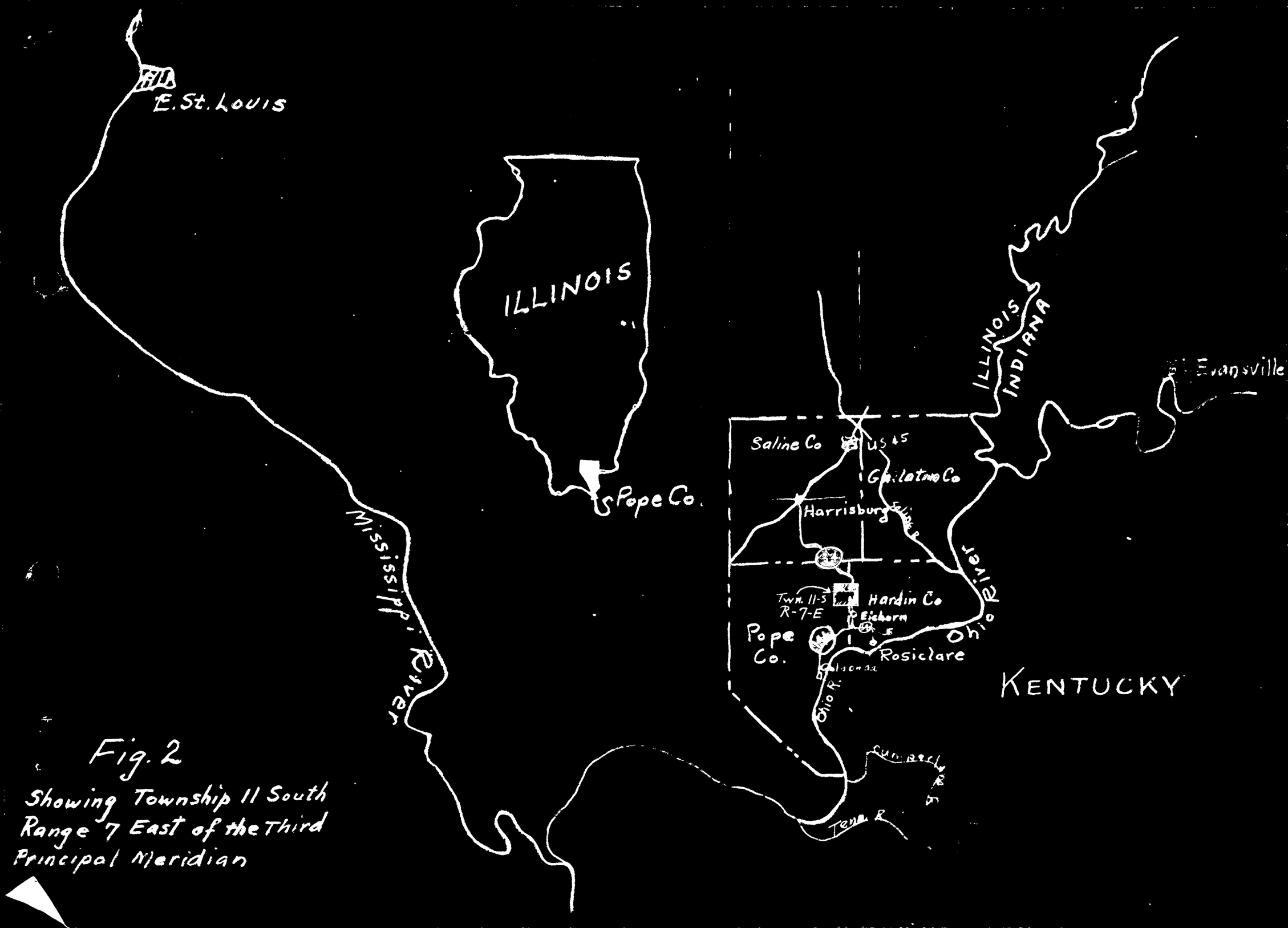


Fig. 2
Showing Township 11 South
Range 7 East of the Third
Principal Meridian

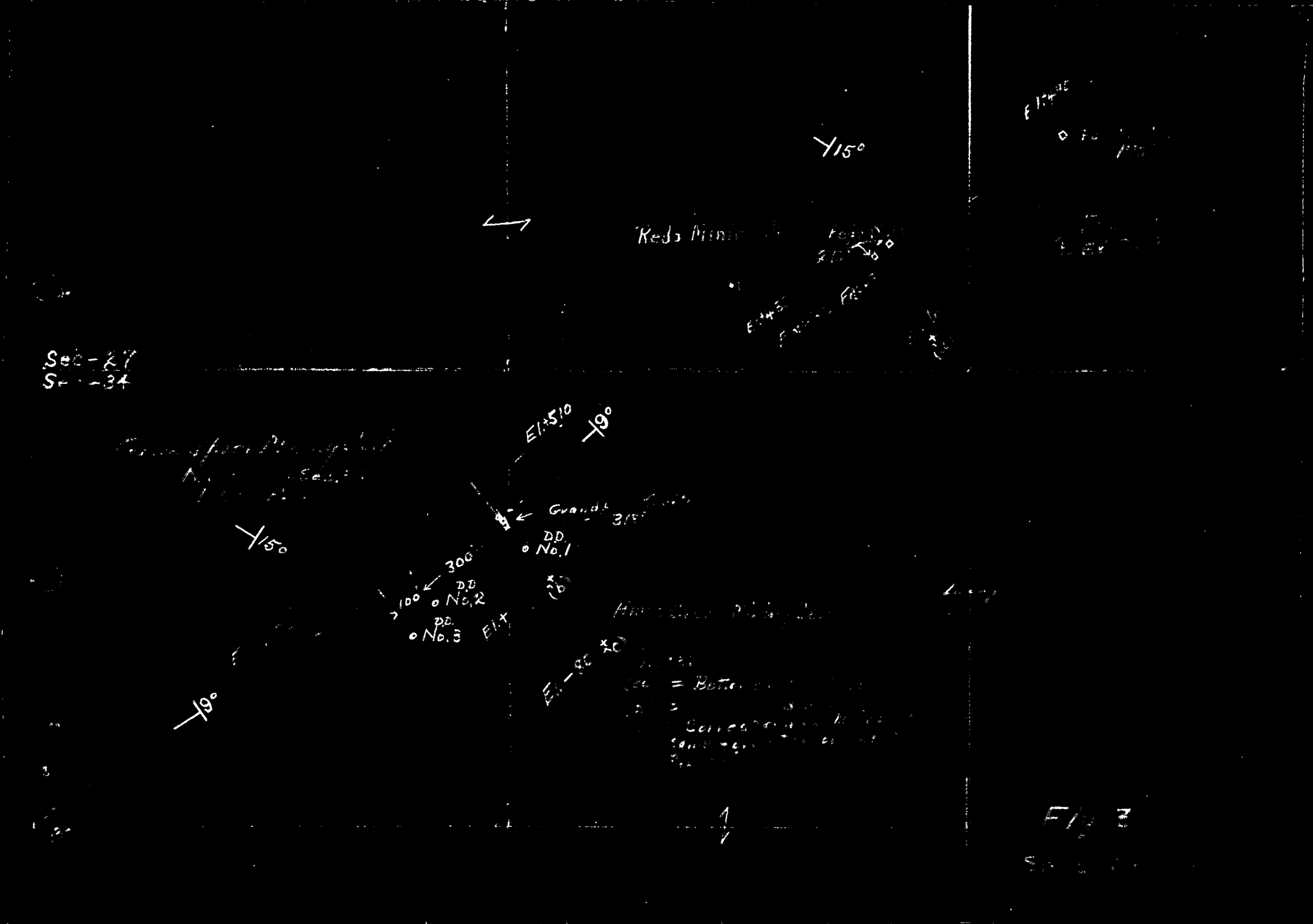
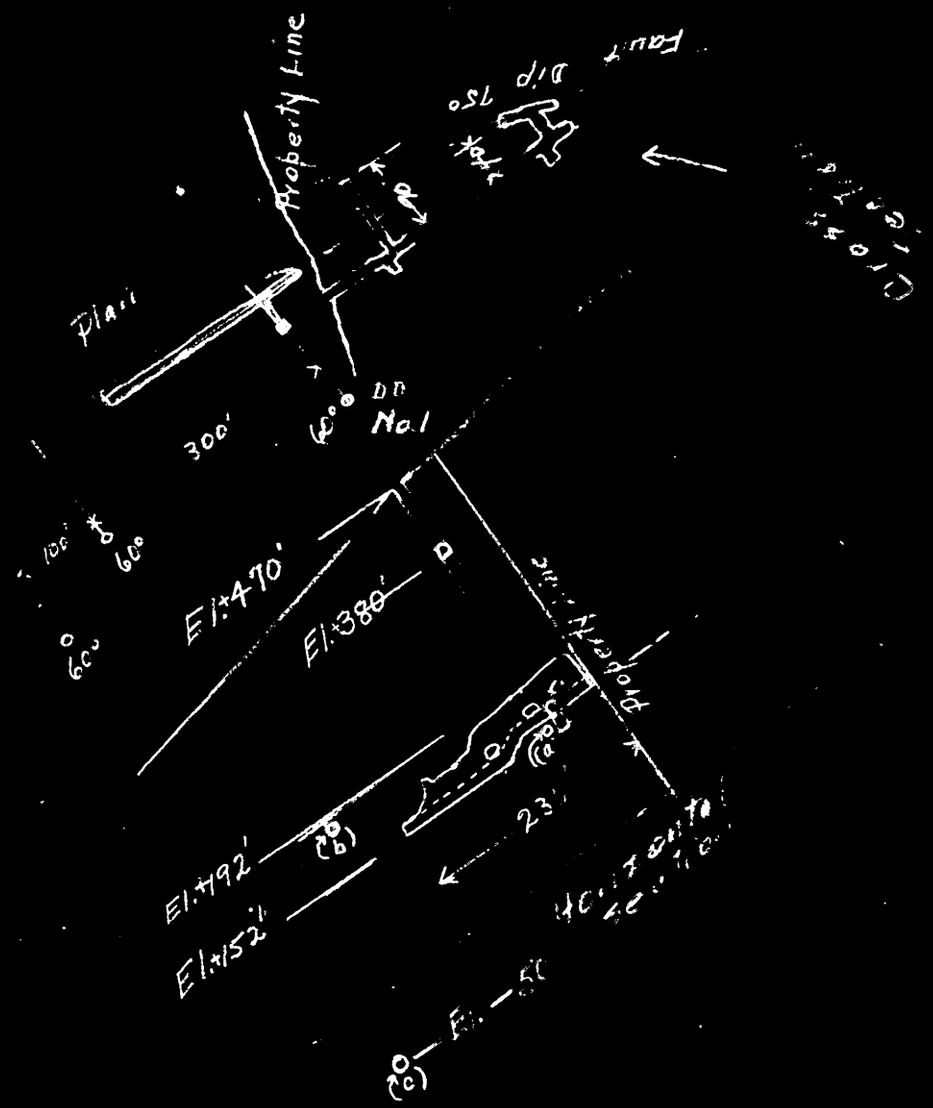

Y150
Sec-27
Y150
El.510
9°
Guage
DD
No.1
300
100
DD
No.2
DD
No.3
El.
9°
= Bottom

Fig 3

NE¼ of NE¼ of Sec. 34
T. 11 S; R 7 E.

Grandpie Mining Corpn



Note.- (a), (b) and (c) indicate the approximate location of where DD No. 1 is to cut the oil.

Fig. 4.

Scale. 1" = 300'

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA 2246
MS-2764

Date received 11-21-51

GRAUPNER MINING CORPORATION
RR/2
ELIZABETHTOWN, ILLINOIS

Name and address of applicant

Date ILL. 11-6-1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Louis J. Gaskins Pres. Harrisburgh, Ill.	Pres. (D)	None	30,000	75		7,500	?
Omar R. Austin, Elizabethtown, Ill.	Sec.-Treas. (D)	None	25,000	18		1,800	
John T. Gasking, Harrisburgh Ill.	Director	None	5,000	25		2,500	
Kenneth F. Austin Elizabethtown, Ill.	Vice Pres (D)	None	10,000	18		1,800	
Harry W. Beltl Elizabethtown, Ill.	Director	None	5,000	18		1,800	
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ 20,000.00	$ None	$ 100.00	None	None
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)	Fluorspar Lead & Zinc	-	623	1,000	None
2. Quantity of product processed (specify unit of measure and type of process) Tons Jig Mill.	Fluorspar Lead & Zinc Ores	-	324	500	None
3. Quantity and grade of product sold or shipped (specify units of measure)	See Question # 8 & 19 hereof.				

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Yes, if suitable milling facilities can be had.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

See Question #18

16—63792-1

1. Minerals Produced:
   (a) What are the chief mine, mill or smelter products?
   (Ans) Fluorspar, Galena and Sphalerite.

   (B) What are the byproducts, if any?
   (Ans) None.

2. Name and type of mine, etc.- Grandpier Mining Corporation. Commonly called Grandpier Mine. Previously known as Durffee property. This is a shaft mine on near vertical fault.

   (a) Linear feet of shaft. (Ans) 318'.
   (b) Linear feet of crosscuts and drifts. (Ans) 250' of drift along the vein on the 300' level; 45' of crosscut on the 300' level and 80' of cross cut on the 90' level.
   (c) Linear feet of tunnels and addits. (Ans) None.
   (d) Linear feet of other mine openings. (Ans) Stoping has been done practically all along the entire length of the 300' level, to a height of from 10' to 30' above the track. (See Fig. 4 Below)
   At the present time the mine is partly flooded, since we are not operating. The mine would make aproximately 50 gpm. if allowed to flow but there has been some grouting done and has the floww cut down to about 15gpm. However, pipes were grouted in the water ways and valves placed on them for convenience in the event the water would be needed at any time. At present the valves are closed.

   The shaft is vertical and is 5' x 7' in the clear.

3. For each operation listed above supply the following:
   (a) Distance and direction from nearest town and shipping point.
   (Ans) Mine is about 10 miles Northwest from Rosiclare and 14 miles Northeast of Golconda, Illinois. Both places are located on the Illinois Central R. R.
   (b) Mining District. (Ans) Mine would be considered in the Illinois-Kentucky Fluorspar Didtrict.
   (c) Township, Section and Range. (Ans) Township 11 South, Range 7 East, Section 34. Northwest ¼, of the Northwest ¼, in Pope County, Illinois.

   (d) See (c) above. See Fig. 2 below.

4. State whether or not property is now in operation, and if in operation, by whom operated.
   (a) (Ans) This property is in operating condition but under existing circumstances, this ore cannot be economically milled by any of the existing mills in the district. (See Comparison Table, Question 19 Form MF-103)
   It is the hope of the applicant that sufficient ore reserves can be developed by this exploration program to warrant the erection and operation of a suitable mill adjacent to the mine. This property is controlled by the Grandpier Mining Corporation, Elizabethtown, Illinlis.

   (b) Are you operation this property as Owner, Lessee or Contractor?
   (Ans) The applicant is pperating this property as lessee.

5. Number of years in production.
   (Ans) Started production in August 1950 and ceased production 7-9-1951. But will begin operations again if suitable facilities or arrangements can be had to successfully separate these ores.

6. Experience of Operators.
   (Ans) The operators of this mine, that is the managing personal have had from ten to twenty five years experience in the mining business in this district and can furnish good reference if necessary.

7. History. (a) The first work done on this property was in 1937, when a shaft was sunk near the East boundry line to a depth of 90' and a crosscut driven North 75' and South 25' but these operations were too shallow to develope any ore. There was no more work done upon this property until late in 1949 when the present operators leased the property and drilled three holes along the strike of the fault from the hanging wall side on a 60° angle. The first hole bottomed at 300' vertical depth and was 35' West of the East boundry line. (See Fig. 3 Below) The width of the vein at this point was five feet and an analysis of the core gave the following results: CaF_2 54.458%, SiO_2 9.164%, ZnS 7.330%, $CaCO_3$ 17.231%, with R_2O_3 (Undetermined).817%. The second hole was spaced 300' West from the first and cut the ore at a vertical depth of 260'. At that point the ore was only 3½' in width but there was more Zinc than Fluorspar in this core and there was no analysis

7.History (Continued)-

run on this core.
The third hole was spaced 100' West of the second hole and cut the fault at a vertidal depth of 428'.The fault at this point was 63" in horizontal width with 12" of Calcite on the hanging wall side and 10" of Zinc on the foot wall with fluorspar, lead, Zinc and calcite intermingled all inbetween, but this mixture was principally fluorspar. With this information the applicant began rehabilitating the old shaft previously sunk in 1937. This shaft was deepened to a depth of 318'. A crosscut was driven North to the fault which was 45' from the bottom of the shaft. A drift was driven Eastward 35' to the property line and West 200' from the end of the crosscut. Ore was stoped out at various places along the entire length of the drifts to a height of from 10' to 30' above the track. Some 1,625 tons of ore were mined and removed and was sold to existing spar mills either for blending or milling. In the meantime a small jig mill was erected with a hope of recovering a large portion of the lead and zinc contained in the ore and raising the grade of the fluorspar to the point that the operators would receive a fair price for the mineral constituents contained therein but this mill was insufficient to make the proper separation since the ores were so closely associated, therefore operations were suspended pending further developements. (Further light on this subject will be gained from the Comparrison Table, Question 19 Form MF-103 accompanying this Form)

(b) Since operations began on the Grandpier Property, there has been some leases obtained on the property West of Grandpier and there has been eleven holes drilled on a fault believed to parallel the Grandpier or Empire fault some six hundred feet to the south, but there has never been any drilling or otherwise exploring done on the Empire fault west of the Grandpier property. Previous to the time the Grandpier Corporation began operations, it was the general belief that the Empire fault pinched out as it approached a large hill to the West of the properties previously mined in this area, but the stockholders of the Grandpier Corporation conceived the idea that the ore did not pinch but merely dipped with the rock formations to the Westward and went under the above mentioned hill and the drilling done later proved this theory to be correct, as the enclosed sketches will show.

There has been considerable mining done on the properties lying East of the Grandpier property. The Empire Mine was opened up about one fourth mile East of the Grandpier property in 1924 and 7,840 tons of fluorspar was shipped from that property up to some time in 1927. This property was abandoned after that time until the price of Fluorspar advanced sufficiently to justify the mining of a narrow vein. The property is now being operated by the Egyptian Mining Company who has it leased from the Pierce Heirs, of Chicago.
E. A. Knight & Brother opened a mine between these two properties about the same time the Empire was first opened and later on sold out to the Redd Mining Company who are the present operators. They too, as well as the Grandpier ha ve been forced to sacrifice the lead and zinc contents of the ore mined by them because of insufficient milling facilities.

(c) There has been no private reports made concerning this property by the State Geologists or the Bureau of Mines as the applicant knows of.
The State Mine Inspector examined this mine several times and always reported it in excellent working condition. The metallurgical investigations made include the analysis from the various shipments of ore sold and an average of these show an average of about 42% Fluorspar and 5% Zinc and Lead Sulphides.

See Question #18 also Fig.1 & 3 this form.

(b) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)	13,500	CaF_2 42.0% Pb 1.5% Zn 3.5%	~~$36.18~~ $40.20	$36.18 90% Ex.	$13.33
Indicated (probable)	56,000	Same	Same	Same	Same

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads: See Fig. 2 & 4, this form. All roads are paved except 1 3/4 mi. gravel near the mine.

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

See Question #15 Form MF-103.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

See Question #13 Form MF-103.

15. Power:

State amount of power used, rate per hour, and source thereof. Have 60 KW Diesel Electric Set.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

Applicant used an average of 10 men while opecating.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. Equipment is in good operation condition. See Question #8 Form MF-103 for list of Equipment.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

See Question #19 Form MF-103

CERTIFICATION

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

GRANDPIER MINING CORPORATION
(Name of Company)

By Amar R. Austin
(Signature of authorized official)

11-6-1951
(Date)

Sec. Treas & Reg. Officer
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. D.M.E.A. 2246

Date received 11-21-51

Participation MS-2704

[illegible] Mining Corporation
R.F.D. #2
[illegible], Illinois.

Name and address of applicant

Date 11-6-1951

FILL IN THIS BLOCK

Date of application November 6, 1951

Estimated cost $7,400.00

Mineral or metal Ba, Zn — Pb

Percentage of Government participation 50% $3,700.00

Location of mine NW of NW of Sec. 24, T 11 S, R 7 E. Pope County, Ill.

Date of filing MF-100 Nov. 6, 1951.

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

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

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

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

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

16—64067-1

DEFENSE MINERALS ADMINISTRATION WASHINGTON

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

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

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

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

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each. Drilling by contract.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

No cost

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent. Answered in Question 21 above.

CERTIFICATION

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

[illegible] (Name of company)

By Oscar R. Christie (Signature of authorized official)

[illegible] (Date) 11-5-1952

Sec.-Treas. & Registered Officer. (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Questions 1 to 5 inclusive are answered in Form MP-100 accompanying this application.

6. If owner, state what claims, liens, or encumberances, if any are against the property.
(Ans) Not owner.

7. If Lessee, attach a copy of the lease and state if it is in good standing.
(Ans) The lease is in good standing and a copy is attached.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.

CURRENT FINANCIAL STATEMENT

Assets	Total current assets	None	
	Plant used in business		
	Land	None	
	Buildings	$3,000.00	
	Machinery	10,000.00	
	Equipment & Fixtures	6,000.00	
	Less reserve for depreciation	None	
			$19,000.00
	Other assets		
	Ore reserves 13,500 tons @ $1.00/ton		13,500.00
	Total assets		$32,500.00

LIABILITIES

Liabilities	Notes payable		
	Banks	$1,200.00	
	Stockholders	1,000.00	
	Accounts payable	5,000.00	
	Total Current Liabilities		$7,200.00
	Common Stock	$20,000.00	
	Surplus	5,300.00	
	Total		$25,300.00
	Total Liabilities		$32,500.00

PROFIT AND LOSS STATEMENT

OPERATING COSTS:	Royalty (20%) m	$4,275.93
	Compensation Insurance	2,522.19
	SS., Withholding & Unemployment tax	1,946.26
	Mining (1,623/tons @ $4.50/ton)	7,303.00
	Hauling (1,313/tons @ $1.50/ton)	1,970.00
	Milling cost, ~~own mill (824 tons @ $1.45/ton)~~	
	own mill (824 tons @ $1.45/ton)	1,194.00
	* Milling cost, Mahoning mill (46 tons @ $8.50/ton)	391.00
	Supervisory salary (Calvin Stacey)	2,092.00
DEVELOPEMENT COSTS:	90' Shaft rehabilitation	666.00
	228' Shaft sinking @ $30.00/foot	6,840.00
	40' Crosscut @ $15.00/foot	600.00
	367' D.Drilling U.G. @ $3.00/foot	1,101.00
	** 1,266' D.Drilling Surface @ $3.00/foot	$3,797.00
	Total	$30,510.38

* Not entered into totals-deducted before settlement.

** Not entered into totals-incomplished before incorporating.

8-Continued-

MACHINERY (Mine)	(Hoist (used) - - - - - - - - - - - - - - - -	$ 400.00	
	(Hoist motor (rebuilt) - - - - - - - - - -	400.00	
	(120 HP Herculose Diesel DC to (60 KW. 220-3-60 A.C.Generator - - - - -	3,600.00	
	(Double drum electric slusher hoist - - -	600.00	
	("Sirocco" Blower - - - - - - - - - - - - - -	300.00	
	(Sinker pump (150gpm-250 ft.head - - - - -	400.00	
	(" " (150 gpm-150 ft. head - - - -	300.00	
	(Station pump (150 gpm-150 ft. head - - - -	300.00	
	(Compressor (used) 165 cu.fpm. - - - - - - -	400.00	
	(80 HP Continental Industrial Motor - - - -	600.00	
	(		
(Mill)	(Crusher and Motor - - - - - - - - - - - - -	600.00	
	(Jigg and Motor - - - - - - - - - - - - - - -	1,200.00	
	(Classifier - - - - - - - - - - - - - - - - -	500.00	
	(Conveyor - - - - - - - - - - - - - - - - - -	200.00	
	Total Machinery - - - -		$10,000.00
BUILDINGS & EQUIPMENT	(Headframe & Bins - - - - - - - - - - - - - -	$1,500.00	
	(Hoist cable (450 ft. @ $1.00/ft.) - - -	450.00	
	(Galv. Blower Pipe (350' x 10") - - - - -	350.00	
	(300' of 10" Ventura tube - - - - - - - - -	300.00	
	Slusher blade and accessories - - - - - - -	500.00	
	(AC Switchboard & automatic controlls - -	600.00	
	(Two tons #20 Rail - - - - - - - - - - - -	250.00	
	(400' 3" Standard pipe - - - - - - - - - -	250.00	
	(500' 2" " " - - - - - - - - - -	150.00	
	(300' 3 con. #2 Electric cable- - - - -	450.00	
	(Air receiver 3'x 10' (200# WP) - - - -	600.00	
	(Sullivan Jackhammer - - - - - - - - - - -	300.00	
	(I.R.Stoper - - - - - - - - - - - - - - - -	300.00	
	(Hoist house 16x30x9———4,320 cu.ft.		
	(Shop 12x30x9 ———— 3,240 cu. ft.		
	(Mill 30x40x18.5 ——— 22,340 cu. ft.		
	(Total - - - - - - 30,000 cu.ft.	$3,000.00	
	@ $0.10/M cu.ft. - - - - - - -		
	Total - - - - - - - - - - - - - - - -		$9,000.00
	Total Expenditures - - - - - - - - - - - -		$ 49,510.38

RECEIPTS

(Capitol Stock - - - - - - - - - - - - - -	$20,000.00	
(Note at bank - - - - - - - - - - - - - - -	1,200.00	
(Note to Stockholders - - - - - - - - -	1,000.00	
(*Receipts from Sales - - - - - - - -	22,310.38	
Total Receipts - - - - - - - - -		$ 49,510.38

* NOTE-See following schedule for itimized sales receipts.

GRADE	TONS	UNIT PRICE	AMT.of SALE	
Lump	8.2	$44.50/ton	$ 367.12	
	6.6	44.61	294.22	
	7.2	43.00	309.06	
	8.4	40.00	336.00	
	8.7	45.00	389.42	
	39.1			$1,696.63
Gravel	47.9	23.00	1,101.58	
	16.1	23.00	370.76	
	8.6	23.00	197.23	
	57.1	23.00	1,313.42	
	8.6	23.00	197.11	
	23.7	23.00	543.95	
	180.7	23.00	4,156.67	
	32.6	23.00	749.80	
	49.0	25.00	1,225.88	
	36.5	25.00	911.38	
	22.8	23.00	524.52	
	15.2	23.00	349.48	
	16.5	25.00	390.90	
	14.4	20.88	400.67	
	90.0	20.00	1,800.50	
	619.7			$14,233.75

39.1
619.7
658.8 T
cf. quantity milled in jig mill
= 829 T

8. Continued-

GRADE	TONS	UNIT PRICE	AMT of SALE	
Mine Run or Crude	36.3	$17.09/ton	$ 620.62	
	14.5	15.00	218.33	
	15.5	11.51	178.29	
	6.0	16.62	99.97	
	34.9	10.00	349.30	
	11.9	8.90	105.64	
	25.6	9.03	231.60	
	94.2	12.15	1,141.39	
	14.3	7.90	112.18	
	15.0	10.90	163.94	
	17.5	7.87	138.09	
	17.2	12.50	215.00	
	29.3	16.70	489.78	
	66.8	7.60	504.29	
	8.4	7.70	64.37	
	8.6	8.80	75.72	
	416.0			$4,708.41
Mine run low grade.	14.2	6.50	92.62	
	33.2	6.67	221.76	
	173.6	7.50	1,302.19	
	17.0	3.24	54.97	
	238.0			1,671.54
		TOTAL SALES - - - - - - - - - -		$22,310.38

416
238
654

658.8
654
131 2.8

9. How much money is applicant prepared to invest in proposed project, etc.--
(Ans) A group of Grandpier Mining Corporation stockholders have an EX drill that has been used all along in the drilling previously done upon this property, that is capable of drilling this formation. This machine and labor will be available for the drilling program, at a price of $3.00 per foot.

10. Give a description of the real property that will be in any way involved in the exploration project, including any mine or operating property.
(Ans) (a) The northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven (11) South, Range Seven (7) East of the third principal meridian, located in Pope County, Illinois. Detailed description in accompanying Form MF-100, Question #2.
(b) Same as above in (a)

11. Answered in accompanying Form MF-100 Question #2
12. " " " " " " " #3.
13. State source and quantity of water.
(Ans) There is a large creek running through the western portion of this property and there is plenty of water available for any kind of mining operation as this creek os something like fifty feet between the shore lines and never goes dry. There is also available aproximately fifty gpm. in the mine if needed.
14. Describe any existing facilities, etc.--
(Ans) This wuestion is answered in #9 above.

15. State in detail how the ore could be shipped, etc.---
(Ans) Ore can be shipped by rail from either Rosiclare or Golconda, Illinois as both towns are on the Illinois Central R. R. Rosiclare is 10 miles and Golconda 14 miles from the mine. Ore cannot, under the present circumstances be milled economically, by any of the existing mills in this district as shown in the comparison table on question 19 below.
It is the hope of the applicant, that sufficient ore reserves can be developed by this exploration program to warrant the erection and operation of a suitable mill adjacent to the mine.
16. History.
(Ans) Given in accompanying Form MF-100, question 7.

17. This mine was in production from August 15, 1950 to July 9,1951 and the production is shown as Itimized Sales in question 8 above.
18. Ore or mineral reserves.
(a) Describe the ore or mineral deposit briefly.
(Ans) This is a vertical vein deposit striking N 55° East and dipping to the South-east at aproximately 75°.
(b) See accompanying Fig. 4 below.
(c) Give estimated tonnage and grade of each class of ore reserves.
(Ans) The applicant estimates a reserve of 13,500 tons blocked out, with an assay and value reading as follows: See quedtion 19 following.

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

This ore contains valuable amounts of lead and zinc sulfides in addition to the fluorspar contents. If the applicant had an efficient mill, the ore would show a substantial profit to the operator and the Defence Program would be aided by obtaining a maximum amount of all of the critical components of this ore. Under present operating conditions the applicant shows a financial loss of $8,200.00 in one year of operation, as shown in the profit and loss statement and the comparrison tables that follow. This is due to the lack of proper milling facilities at a reasonable cost to the applicant.

An average analysis and pe r/ton value of this ore follows:

typical ?

MATERIAL	PERCENT	$/ton 90% Ex.	VALUE/#	TOTAL VALUE
CaF_2	42.0	756	$0.03	$22.68
Pb	1.5	27	.15	4.05
Zn	3.5	63	.15	9.45
SiO_2	8.0	No value		
$CaCo_3$	42.0			
S	1.5			
R_2O_3	1.5			
				$36.18

COST

Mining -	$ 7.00	
Milling -	5.00	Too low ?
Hauling (Concentrates) Fluorspar - - - -	1.00	
" " Sulphides - - - -	.33	
Total - - - - - - - - -	$13.33	13.33
Profit per ton of Crude Ore - - - - - - - - - -		$22.85

The above costs are placed much higher than the actual costs as shown in question #8 under Operating Costs, in order to offset any future rise in production costs, yet this same ore, had it been milled by the applicant, would have yielded a net profit of $22.85 instead of the following returns as received from the various existing plants now operating in this district, when sold under their purchase schedule:

PLANT "A"

3% Moisture allowed.
CaF_2 42.0% SiO_2 8.0% Eff. CaF_2 22.0%

Settlement (1) CaF_2 42.0% @ $0.20 per ~~Eff~~. Unit - - - - $8.40
(2) Eff. CaF_2 22.0% @ $0.40 per Eff. Unit - 8.80

COSTS (Mining - - - - - $7.00
(Hauling - - - - - 1.25
(Total - - - - - - 8.25

NET SETTLEMENT (1) $0.15
(2) 0.55

8 SiO_2
x 2 1/2
20
42
20
22 eff.

PLANT "B"

No moisture allowed. Dry weight net.
CaF_2 42.0% @ $0.20 per unit - - - - - - - - - - - - - - - - - $8.40
Pb (NO credit)
Zn 3.5% minus 1% leaves 2.5% @ $1.25 per unit - - - - - - - 3.12
Total - - - - - - - $11.52

COSTS
Mining - - - - - - $7.00
Hauling - - - - - - 1.50
Total $8.50

NET SETTLEMENT @ - $3.02

19. Continued-

Mahoning

PLANT "C"

Dry weight.			
CaF_2	42.0%	Minus .05% equals 41.95% x .85 Equals 35.66 or 713# @ $0.022/lb. - - - - - - - - - -	$15.69
Zn	3.5%	Minus .09% equals 3.41% minus .5% equals 2.91% x .9 equals 26.2# @ 10¢/lb - - -	2.62
Pb	1.5	Minus .75% equals .75% x .8 equals 12# @ 10¢ per lb. -	1.20
		Total	$19.51

Costs		
Mining - - - - - - - - - -	$7.00	
Hauling - - - - - - - - - -	1.25	
Mill Treatment - - - - - -	8.50	
Total	$16.75	16.75
NET SETTLEMENT - - - - - - - - - - - - - - -		$ 2.76

COMPARISON TABLE

	OWN MILL	PLANT "A"	PLANT "B"	PLANT "C"
Net return/ton crude ore	$22.85	(1) $0.15 (2) 0.55	$3.02	$2.76
Difference or loss to applicant		(1)$22.70 (2) 22.30	$19.83	$20.09

A mill capable of treating this ore, which is the ultimate aim of the applicant, costing $2,000.00/ton of daily capacity, could easily be paid for in five years.

20. Exploration will be conducted on a vertical fault for Fluorite, galena and sphalerite.

21. Explore 1,000 feet of the "Empire Fault" to the Southwest of the holes previously drilled Using a 200 foot interval between holes, four holes at 45° inclination to a depth of 550' will explore the deposit at the ore bearing level or horizon (300' level of mine) the remaining distance across the property.
Aproximately 2,200 feet of drilling at $3.00 per foot would cost $6,600.00 and would require about four months of favorable drilling weather to complete the drilling program, working one shift per day. (See Note Below)

22. See Fig. 4 accompanying Form MF-100

Note: Drilling 2,200' @ $3.00/ft. $6,600.00
Grouting Costs 400.00
Assaying + Core handling Costs 400.00
Total Cost $7,400.00

MINING SUB-LEASE AGREEMENT

This Sub-lease Agreement made and entered into this the eighteenth (18th) day of August, A.D. 1949 by and between Louie J. Gaskins, of Harrisburg, Illinois, hereinafter known as the sub-lessor, and Calvin Stacey and Wayne M. Koster, of Harrisburg, Illinois, and Omar R. Austin and Kenneth F. Austin, of Elizabethtown, Illinois, known hereinafter as the sub-lessees.

WITNESSETH: That, whereas the sub-lessor hereto, being vested with full authority and exclusive right to sub-lease the hereinafter described property and, whereas the sub-lessees desire and do hereby obtain the same rights as are vested in the sub-lessor, with reference to said property, except that the sub-lessees shall not have the right to purchase, insofar that the sub-lessor and the sub-lesses covenant and agree upon the following stipulations;

Now therefor, for and in consideration of the payment of the sum of Two Hundred Fifty Dollars ($250.00) by the sub-lessees to the sub-lessor, the receipt of which is hereby acknowledged the said sub-lessor does hereby lease unto the said sub-lessees, the following described property, to-wit:

Northwest one fourth of Northwest one fourth of Section 34 Township 11 South, Range 7 East: Pope County, Illinois, Forty acres more or less; and in this behalf the sub-lessor doth hereby sub-lease for a period of one year to the sub-lessees the exclusive right to dig, sink shafts and mine minerals in, upon, and under the above described real estate, with the right to build buildings, tipples, and roads and install mining and milling equipment, together with the right of ingrees and egress to and over said property, and the said sub-lessor herein agrees that he will cooperate on an equal basis with the sub-lessees herein in the acquisition

and construction of a road whereby the above described property may be reached from the public highway, which shall be for the successful operations of mining and removing minerals upon and from the above mentioned property.

It is also agreed between all of the parties hereto that upon the termination of this sub-lease the said sub-lessees herein do hereby reserve the right and the right is hereby granted to them to remove all structures, machinery and equipment placed upon said property by said sub-lessees.

And in this behalf it is hereby specifically agreed and understood:

1. That the title to the surface of the above mentioned described premises is in the United States of America, and that all mining operations to be carried on by the lessee in this behalf are to comply with the rules and regulations of the United States Government in that behalf.

2. It is especially agreed and understood that the sub-lessees are to pay to the sub-lessor a sum in the amount of twenty per cent (20%) of the selling price as a royalty for all fluorspar and other minerals or commercial clays removed from said property during the life of this lease. It is further understood that tonnage royalty payments shall be accompanied by copies of statements or invoices from purchaser or refiners. The Sub-lessor shall have the right to examine such books, accounts, papers and records of the sub-lessees as may be neccessary, in the opinion of the sub-lessor to determine the amount of tonnage royalties accruing to the sub-lessor.

3. This lease may be renewed at the option of the sub-lessees for a period of two (2) years, and at its expiration every two (2) years thereafter, providing the said sub-lessees shall have in all matters complied with all the conditions set forth herein. Said sub-lessees to give notice in writing to the sub-lessor twenty (20) days before the expiration date of their intention to so renew.

4. Royalties for all minerals are to be paid within thirty (30)

days from the date of the removal.

5. It is further agreed and understood that the sub-lessees shall begin prospecting or mining on said premises within twenty (20) days from the date hereof, and to prosecute such prospecting and ming with expediency, and that a cessation of operations for a period of thirty (30) days at one time, unless hindered by labor trouble, weather, want of market, the acts of God or causes not within the control of sub-lessee, shall forfeit this sub-lease at the option of the sub-lessor.

6. It is further agreed as a part of the consideration of this sub-lease that the said sub-lessees shall pay to the sub-lessor as an mimimum royalty the sum of Twenty-Five Dollars on or before the 5th day of each succeeding month hereafter throughout and during the life of this sub-lease or any extension thereof. However, should the royalty accruing from the operations during any calendar month exceed $25.00 than and in that event, no minimum royalty payment will be required.

7. Sub-lessees agree at all times to carry workmen's Compensation and Liability Insurance sufficient to protect lessor and the sub-lessor from damage or loss, if any, on account of the sub-lessees operations hereunder.

8. It is further agreed and understood that the sub-lessees hereby agree to keep all abandoned or unused shafts or pits on said premises safely and securely closed.

9. It is further understood and agreed that the sub-lessor shall have the right to cancel this lease, without notice, and to re-enter the premises at his option in the event of the failure of the sub-lessees to perform any part of the obligation hereunder taken by them.

10. This instrument is executed in triplicate, each of which is to be taken and considered as an original, and it is understood to extend to

TRANSFER, ASSIGNMENT AND ACCEPTANCE AGREEMENT
Covering a
MINING SUB-LEASE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS: That for and in consideration of the payment of One Dollar ($1.00) and other good and valid considerations, the receipt and sufficiency of which is hereby acknowledged, the undersigned, Omar. H. Austin, Kenneth F. Austin, Wayne H. Koster and Calvin Stacey, being the same parties to a Mining Sub-Lease Agreement bearing the date of August 18th, 1949, covering the Northwest one-fourth (NW¼) of the Northwest one-fourth (NW¼) of Section Thirty-four (34) Township Eleven(11) South, Range Seven (7) East of the third principle meridian, in which Louie J. Gaskins of Harrisburgh, Illinois, is mentioned as Sub-lessor and the above named parties are mentioned as Sub-lessees, have and by these presents, upon the day and date hereinafter written, conveyed, transferred and assigned all of their right title and interest in and to the above mentioned Mining Sub-Lease Agreement, to the Grandpier Mining Corporation, an Illinois Corporation with its registered office in Elizabethtown, Illinois, subject to the discretion of said corporation throughout the entire life of said Mining Sub-Lease Agreement or any extension thereof, under the terms and conditions therein contained.

The Grandpier Mining Corporation in accepting this transfer and assignment agrees to assume all the responsibilities of the former owners as set out in said Mining Sub-Lease Agreement and to save the previous owners harmless from loss or damage occasioned by any acts of said Corporation pertaining to said Mining Sub-Lease Agreement.

Dated at Elizabethtown, Illinois, this the Twenty-seventh day of December, A.D., 1949.

ASSIGNEE	ASSIGNORS
GRANDPIER MINING CORPORATION by	Omar H. Austin
Wayne H. Koster Pres.	Kenneth F. Austin
Omar H. Austin Sec.	Wayne H. Koster
	Calvin Stacey

COUNTY OF HARDIN))
STATE OF ILLINOIS) SS:

I Lewis Gibbs a Justice of the Peace, in and for said County and State, hereby certify that the parties whose names appear affixed to the foregoing instrument, personally appeared before me and signed, sealed and delivered the same as their own free and voluntary act. Dated this the 21st day of November, A.D., 1950.

Lewis Gibbs J. P
Justice of the Peace

SUPPLEMENTAL AGREEMENT

This supplemental agreement, made and entered into, this the Seventh day of November, A.D., 1950, by and between Louie J. Gaskins of Harrisburgh, Illinois, and the Grandpier Mining Corporation, and Illinois Corporation, with its registered office in Elizabethtown, Illinois, WITNESSETH, that,

WHEREAS, the said Grandpier Mining Corporation is the owner of a certain Mining Sub-Lease Agreement bearing the date of August 18th, 1949, in which agreement Louie J. Gaskins appears as Sub-Lessor and Omar. R. Austin et.al. appears as Sub-lessees, the said Grandpier Mining Corporation having acquired siad Mining Sub-Lease Agreement from the said Omar R. Austin et.al. by virtue of a Transfer, Assignment and Acceptance Agreement Dated December 27th, 1949, and

WHEREAS the said Grandpier Mining Corporation desires a change to be made in the wording of paragraph Nine (9) page three (3) of the above mentioned Mining Sub-Lease Agreement and the same is agreeable with the said Louie J. Gaskins. Now THEREFORE,

For and in consideration of the mutual interest of the mutual interests of the parties hereto they do and by these presents agree to supplement Paragraph Nine(9) Page three (3) of the above mentioned Mining Sub-Lease Agreement to read as follows, to wit:

(9) It is further understood and agreed that the Sub-Lessor shall have the right to cancel this lease agreement in the event of the failure upon the part of the Sub-Lessees to perform any part of the obligations herein-undertaken by them; however, in the event of a failure upon the part of the Sub-Lessees to keep and perform any of the stipulations herein contained, the Sub-Lessor shall serve a Thirty(30) day notice, in writing, upon the Sub-Lessees, setting out the alleged failure and in the event of the failure on the part of the Sub-Lessees to comply with said failure within the time given in said notice in which to reconcile said failure, then and in that event, the said Sub-Lessor may declare this agreement forfeited and terminated.

This supplemental agreement shall in no way alter or change any other portion of the above mentioned agreement, and shall be attached to and become a part of the original agreement the same as if originally written therein.

Louie J. Gaskins

GRANDPIER MINING CORPORATION

Wayne M. Koster Pres.

Omar R. Austin Sec.

County of Hardin)
State of Illinois) SS:

I Lewis Gibbs a Justice of the Peace in and for said County and State certify that the parties whose names appear upon the foregoing instrument appeared before me and acknowledged that they signed the above instrument as their own free and voluntary act.
Dated this the 21st day of November A.D., 1950.

Lewis Gibbs J. P.

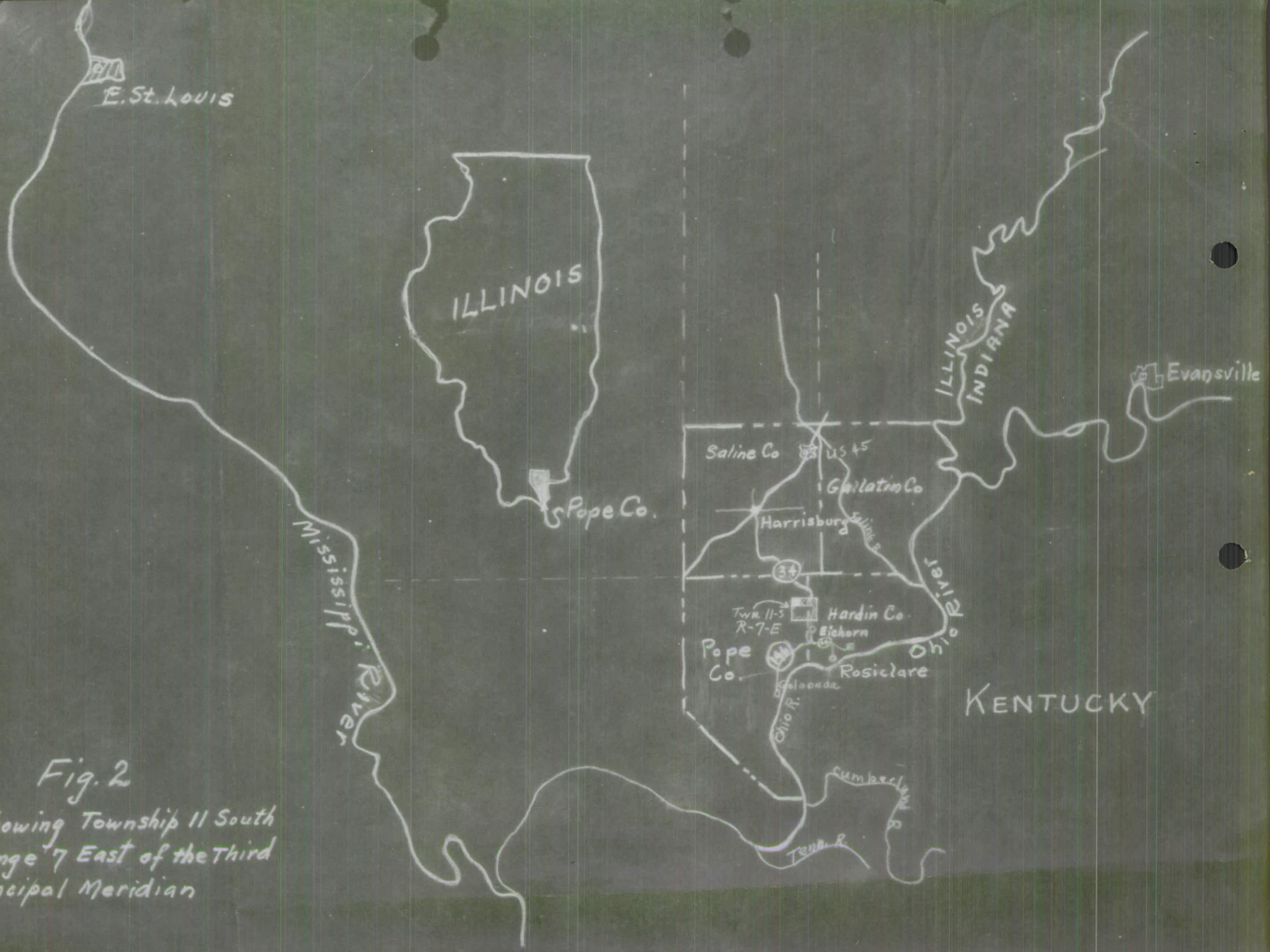


Fig. 2
Showing Township 11 South
Range 7 East of the Third
Principal Meridian

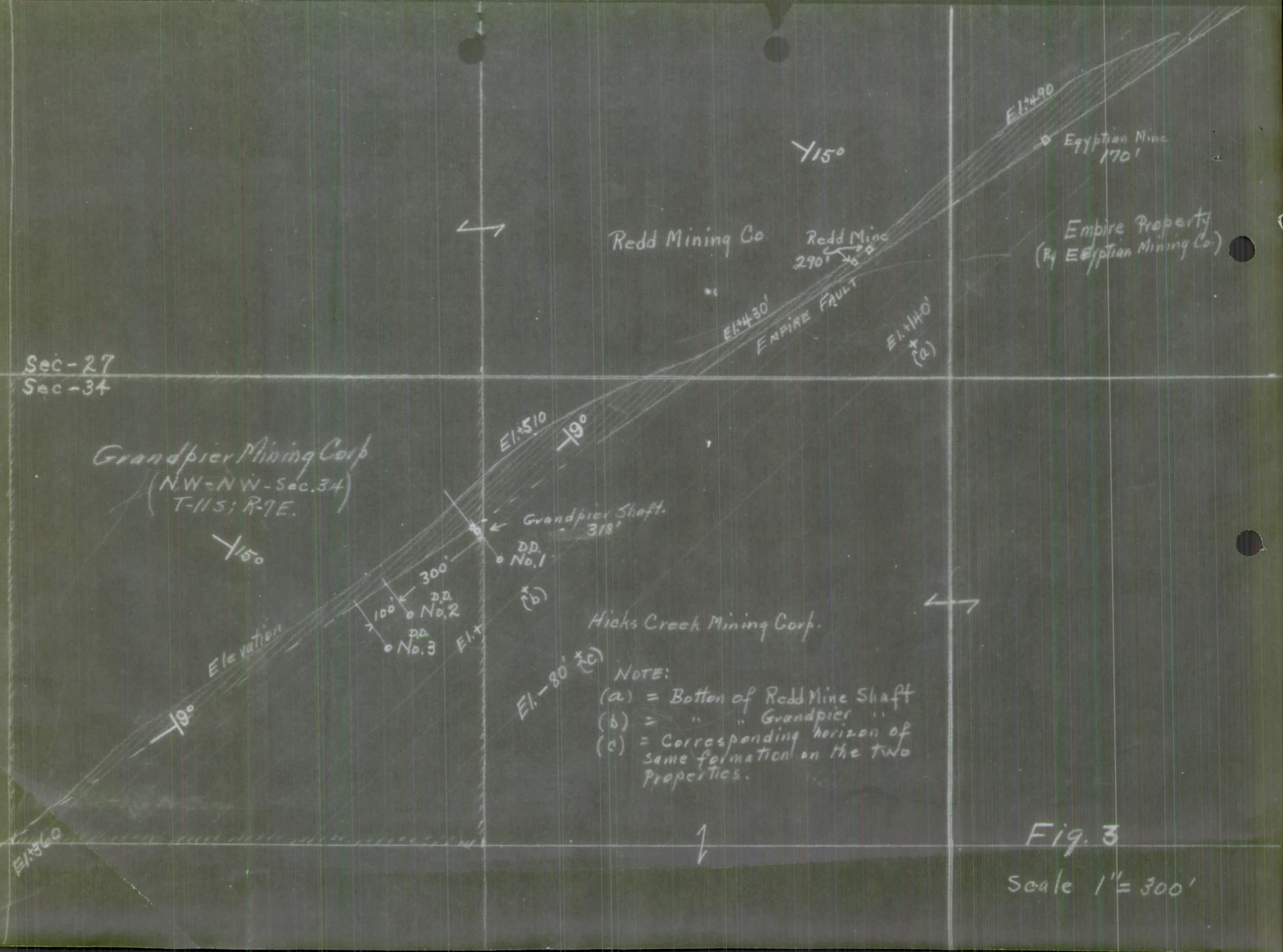
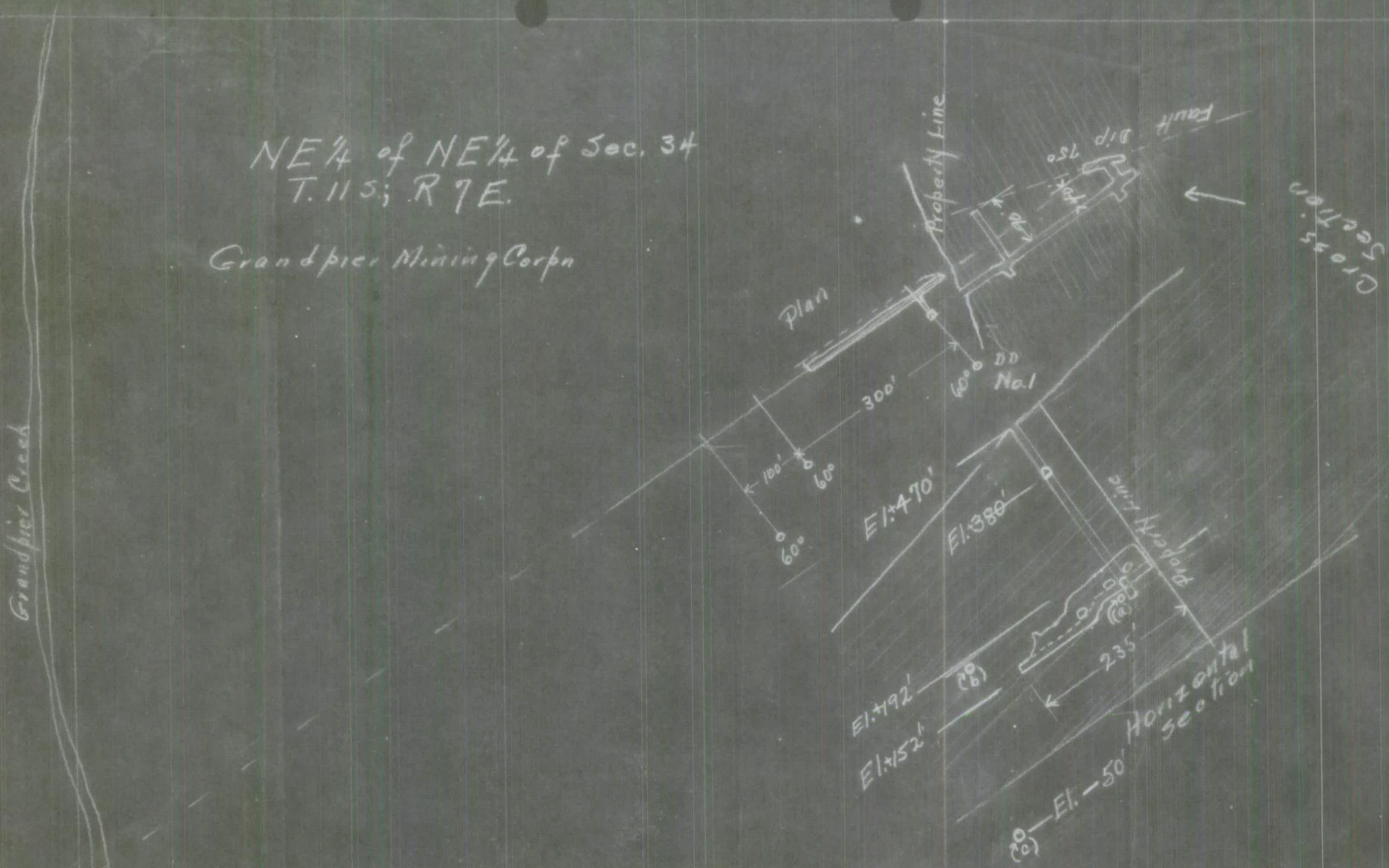


Fig. 3

Scale 1" = 300'

NE¼ of NE¼ of Sec. 34
T. 11 S.; R 7 E.

Grandpier Mining Corpn



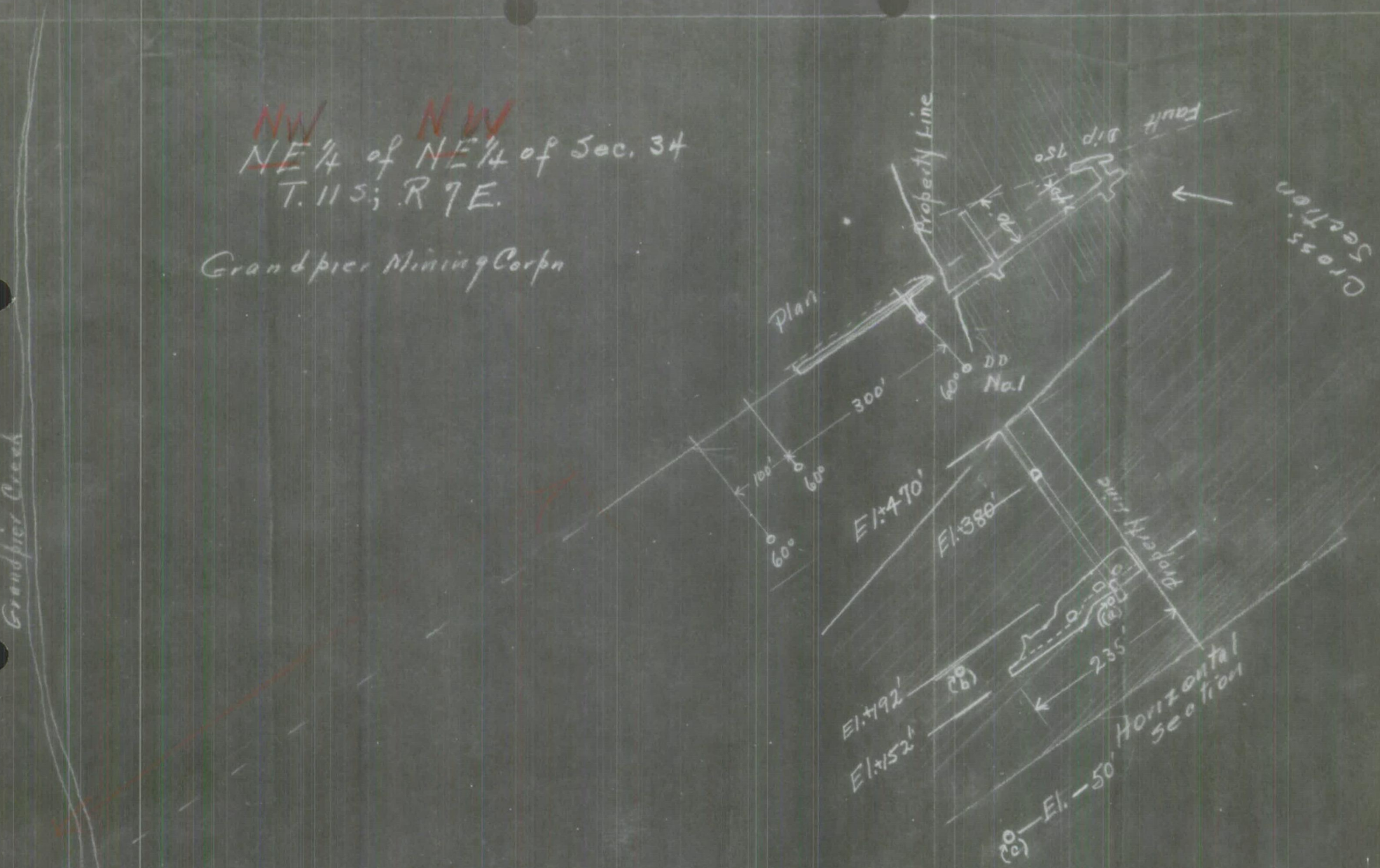
Note.- (a), (b) and (c) indicate the aproximate location of where D.D. Holes 1, 2 and 3 cut the ore.

Fig. 4.

Scale. 1" = 200'

NW NW
NE¼ of NE¼ of Sec. 34
T. 11 S; R 7 E.

Grandpier Mining Corpn



Note.- (a), (b) and (c) indicate the aproximate location of where D.D. Holes 1, 2 and 3 cut the ore.

Fig. 4.

Scale. 1" = 200'

NW NW
NE¼ of NE¼ of Sec. 34
T. 11 S.; R 7 E.

Grandpier Mining Corpn

Note.- (a), (b) and (c) indicate the aproximate location of where D.D. Holes 1, 2 and 3 cut the ore.

Fig. 4.

Scale. 1" = 200'

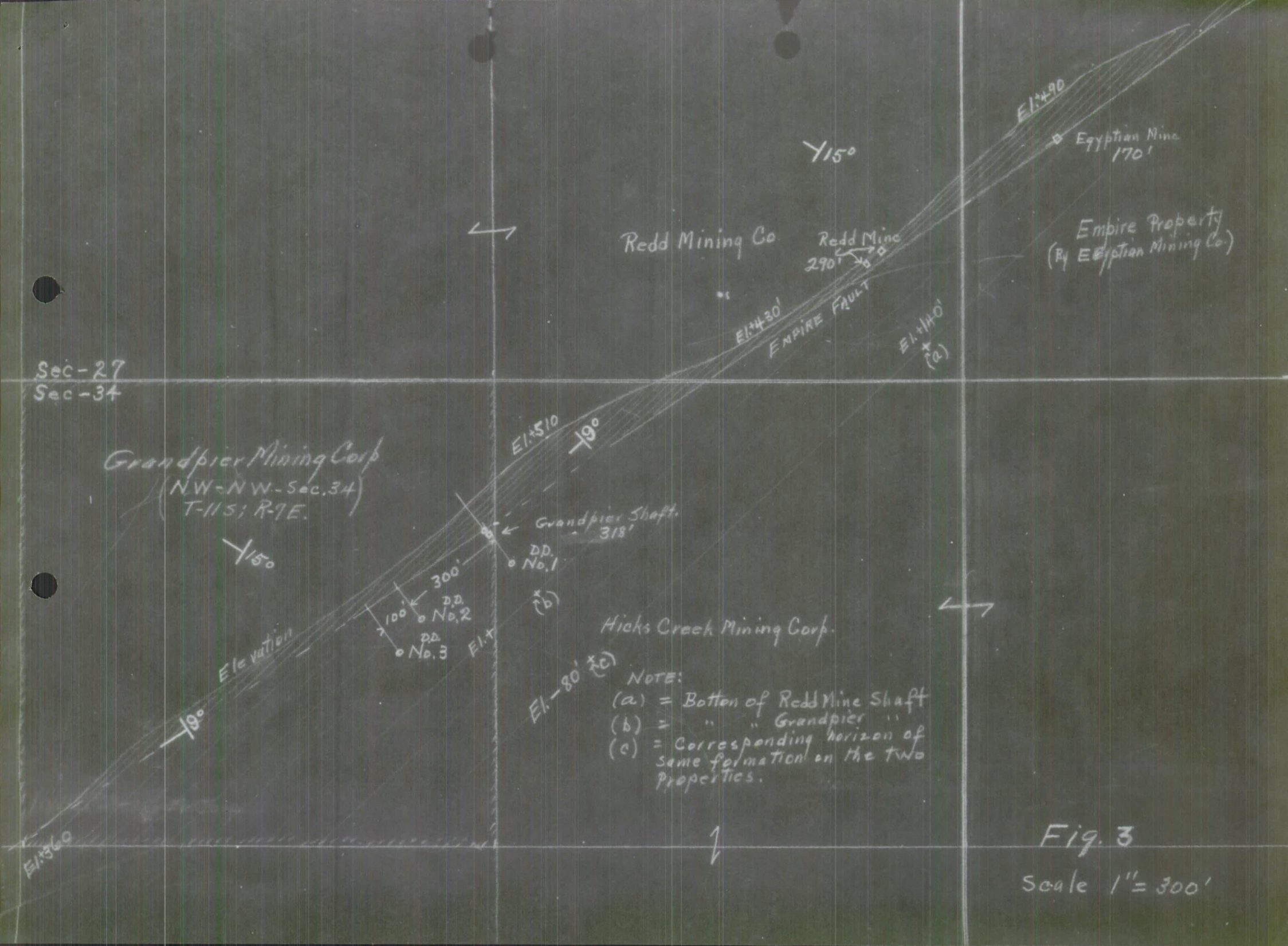


Fig. 3

Scale 1" = 300'

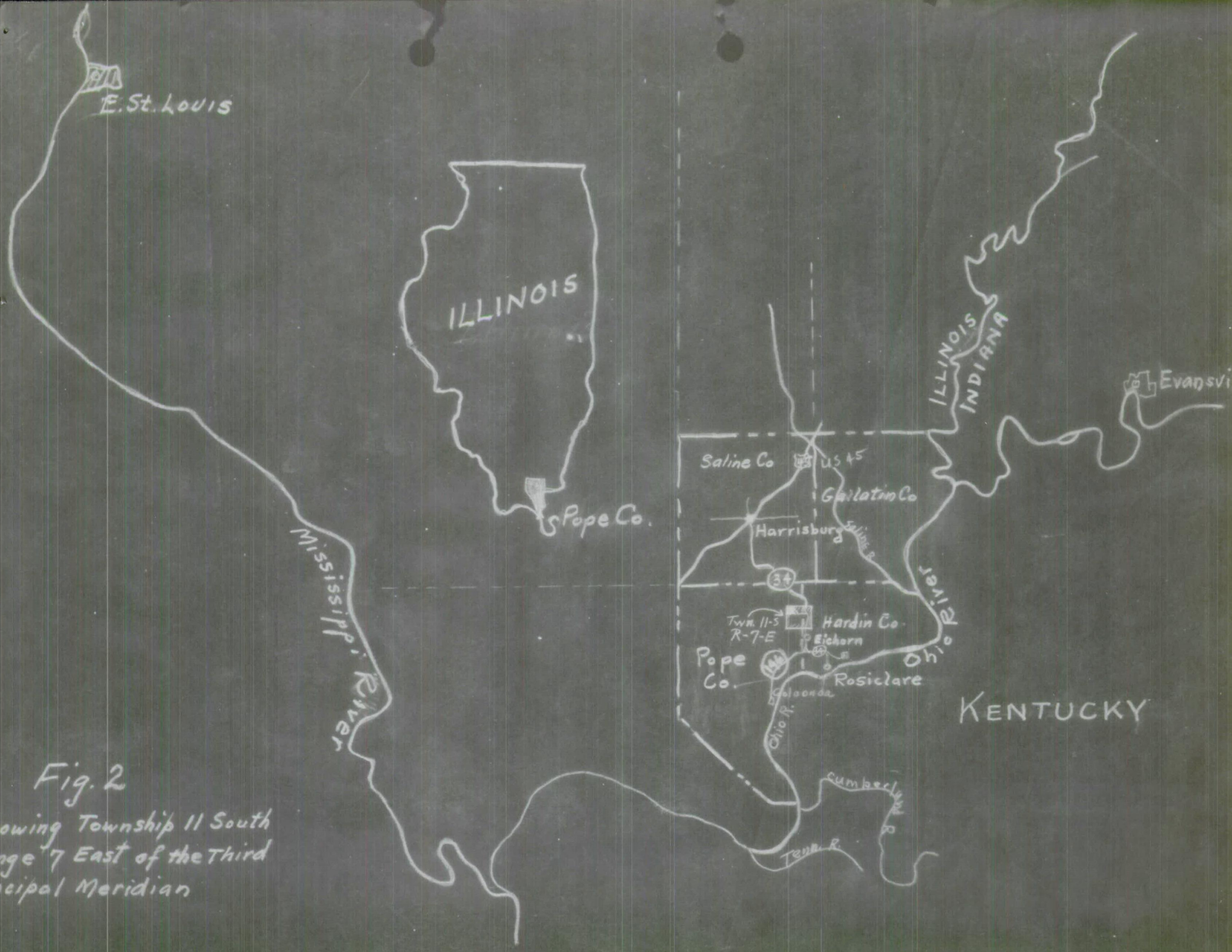


Fig. 2

Showing Township 11 South Range 7 East of the Third Principal Meridian

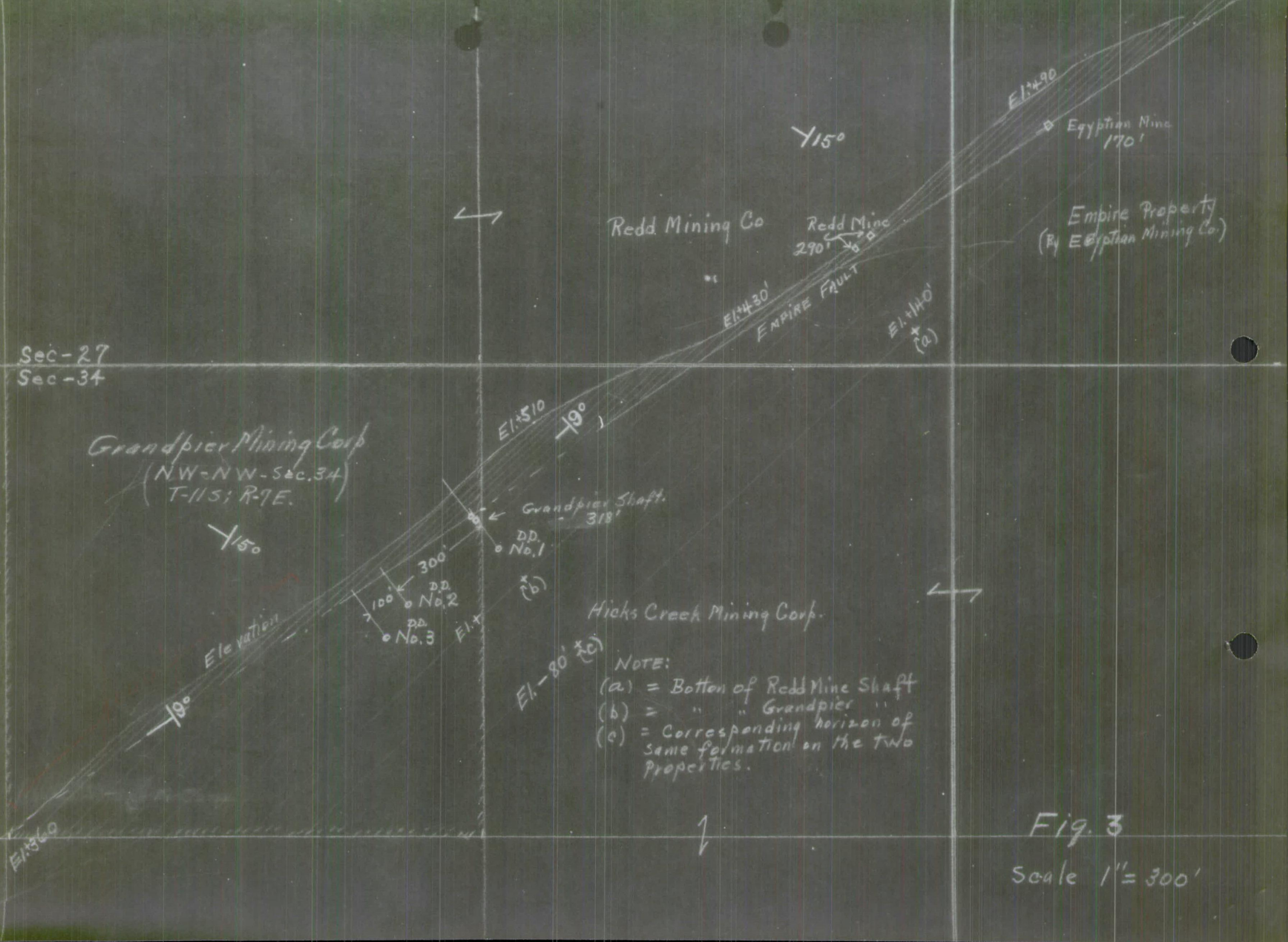


Fig. 3

Scale 1" = 300'

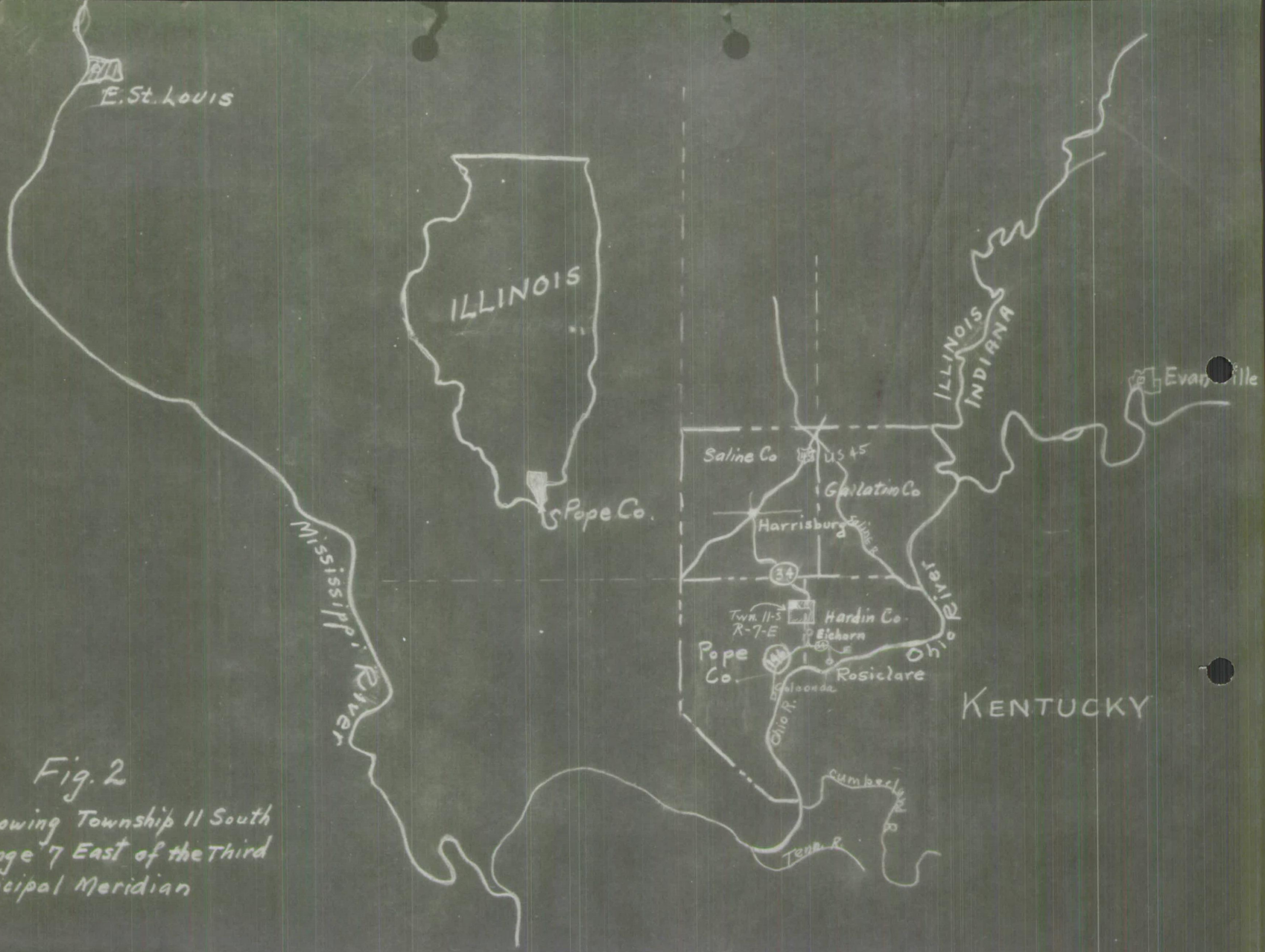


Fig. 2
Showing Township 11 South Range 7 East of the Third Principal Meridian