Docket

RESCISSION OF EXPLORATION PROJECT CONTRACT
BY AGREEMENT BEFORE WORK IS BEGUN

It is agreed this 14th day of August, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and a partnership consisting of John L. Joyce, Fred A. Joyce, hereinafter called the "Operator," parties to that certain Exploration Project Contract I-dm-E293, Docket No. DMEA 1191X dated April 16, 1952, that said contract shall be and is hereby rescinded, revoked, and cancelled as of the date of the contract, before any actions have been taken or costs incurred thereunder, without any obligation whatever, one party to the other, the same as if said contract had never been entered into.

Witness the following signatures as of the day and year first above written.

UNITED STATES OF AMERICA

By W. S. Kerr

FLAGSTAFF & NEWTON MINING CO.

By Fred A Joyce

John L Joyce

MF-200
(June 1951)

RECEIVED
APR 10 1952
Colorado Branch
Date Rec'd
APR 4 1952
BUREAU OF MINES
Denver, Colorado

Docket No. DMA 1191X
Commodity Lead-Zinc

Idm-E293

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DOCKET COPY

EXPLORATION PROJECT CONTRACT[1]

It is agreed this 16th day of April, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and[2] a partnership consisting of: John L. Joyce
Fred A. Joyce
419 East 5th Street
Leadville, Colorado,
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 Colorado, County of Lake described as follows:[3] Newton Claim No. 2470, and Flagstaff Claim No. 348 in the California Mining District
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 and to the following encumbrances, mortgages, etc., 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 ninety (90) days from the date of this contract shall commence work on a project of exploration for[5] Lead-Zinc; 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] twenty-one (21) 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 $ 11,850.00, which is 50 percent of the agreed estimated total cost of this project, $ 23,700.00.

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.

John L. Gay Jr.
Fred A. Gay Jr.
(Operator)

By

THE UNITED STATES OF AMERICA

By J. H. Ernst Jr.
Regional Director, Region IV
United States Bureau of Mines

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

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Lake, State of Colorado, described in a certain Exploration Project Contract dated April 16, 1952, between John L. Joyce and Fred A. Joyce, 419 East 5th. Street, Leadville, Colo. the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated April 16th. 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

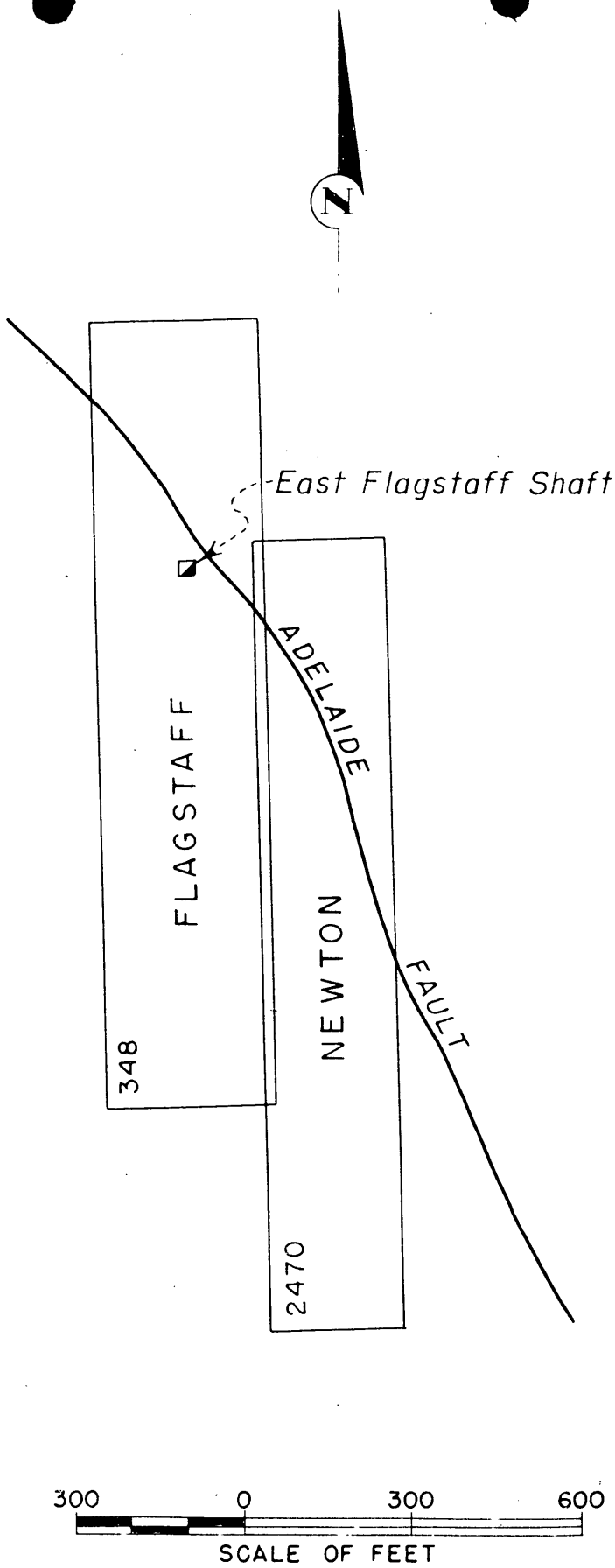
This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this _____ day of _____, 195____

_____

as Power of Attorney
for NELLIE L. CHAMPION

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1



NEWTON & FLAGSTAFF CLAIMS, LAKE COUNTY, COLORADO DMA 1191X

EXHIBIT A

Exploration Project

The proposed project consists of erecting a headframe, constructing a hoist room, installing a gasoline hoist and compressor, rehabilitating and unwatering the East Flagstaff shaft, and doing 900 feet of exploration work near the shaft bottom. The water level in the East Flagstaff shaft is 905 feet below the collar. The total depth of the shaft is given as 975 feet. The mine has been idle for 35 years and maps are not available. The operators plan to explore the northeast extension of an ore zone in the Kinz Limestone which they worked in a neighboring mine. The proposed exploration work cannot be definitely described because the extent of the underground workings is unknown. It may consist of drifting, crosscutting or raising. The location and extent of the exploration work will be determined after the shaft is rehabilitated and unwatered, and must be acceptable to the D.M.E.A. representative.

A claim map showing the location of the East Flagstaff shaft is attached.

The estimated working time is 18 months.

The following costs are estimated:

Rental of equipment	$ 1,944.00
Purchase of equipment	1,[illegible].00
Depreciation of equipment	1,[illegible].00
Labor and Supervision	11,[illegible].00
Supplies	7,[illegible].00
Engineering & Geology	[illegible]
Total cost of project	$23,[illegible].00

Fixtures and Improvements

Headframe with sheave wheel	$ 900.00
Hoist house	500.00
Hoist and compressor foundations	[illegible]
	$1,[illegible].00*

*This total is included in labor & supplies

Operating Equipment

To be rented:

1 10½ c.f.m. gasoline engine-driven compressor @ $164.00 per month — $1,968.00

[illegible]

[illegible]

[illegible]

A claim for [illegible] the location of the "[illegible]" [illegible] be attached.

The [illegible] working [illegible] in [illegible].

The following [illegible] are estimated:

Tools of equipment	$ 1,[illegible]
Machine of equipment	1,[illegible]
Depreciation of equipment	1,[illegible]
Labor and [illegible]	1[illegible]
Supplies	7,[illegible]
Engineering & [illegible]	[illegible]
Total [illegible] of [illegible]	[illegible]

[illegible] and [illegible]

Machinery with [illegible]	$ [illegible]
Toilet [illegible]	[illegible]
Toilet and [illegible] [illegible]	[illegible]
	[illegible]

*This total is [illegible] in labor & supplies

[illegible] Income

To be [illegible]:

1 105 c.f.s. [illegible] [illegible] [illegible]
@ [illegible].00 per [illegible] [illegible]

Rehabilitation and Repairs

Repairing Shaft	$2,175.00*

*This total is included in labor and supplies.

DMA-1191
E-293

Operating Equipment (continued)

To be purchased:

750 feet of 5/8-inch hoisting cable	$ 113.00
Drill bar, or column and clamp for rock drill	100.00
Pressure water tank	87.00
Air receiver, used	100.00
1 Mounted rock drill	800.00
	$1,[illegible]

To be furnished by applicant:

Gasoline hoist, buckets, mine cars, $100.00/month	$1,400.00

Labor and Supervision

1 hoistman @ $1.50 per hour
1 miner-supervisor @ $1.50 per hour
1 miner-miner @ $1.50 per hour

The above wage rates are based on an 8-hour, 5-day week with time and one-half for overtime.

Total estimated wages	$8,400.00
Compensation, payroll taxes	1,[illegible]
Total -	$11,720.00

Supplies

Air and water hose	100.00
Gasoline, oil and grease	1,500.00
Powder, caps and fuse	2,700.00
12-pound rail	600.00
2-inch pipe	300.00
Drill steel	200.00
Drill bits	300.00
Timber and lumber	1,000.00
Small tools	200.00
Assaying	200.00
Total -	$7,100.00

Engineering and Geology

Engineering and Geologic mapping - $250.00

4

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1191 X

DO NOT DETACH THIS SLIP

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

This document has been recorded as

LOAN

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

Routing Slip

To:	COORDINATING COMMITTEE	Date	SEP 6 1951
To:	R+R	Date	SEP 7 1951
To:		Date	
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CONTROLLED DOCUMENT

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

224 New Customhouse
Denver 2, Colorado

August 27, 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator
Defense Minerals Exploration Administration

From: Executive Officer, Field Team, Region IV

Subject: Termination of Contract No. Idm-E293, Docket DMEA 1191X (Lead-Zinc), Fred A. Joyce and John L. Joyce

Enclosed are the original and two copies of Recission of Exploration Project Contract by Agreement Before Work is Begun covering Contract No. Idm-E293. Copies of this agreement have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

W. H. King

Enclosures

RECEIVED
SEP 5 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

gds
9-3-52

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

224 New Customhouse
Denver 2, Colorado

June 10, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration - Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 1191X, (Lead) Newton and Flagstaff Claims, Lake County, Colorado

Enclosed are four copies of DMA-1191X.

The contract has been signed and is now in effect.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 16 1952

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

224 New Customhouse
Denver 2, Colorado

June 10, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration - Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 1191X, (Lead) Newton and Flagstaff Claims, Lake County, Colorado

Enclosed are four copies of DMA-1191X.

The contract has been signed and is now in effect.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
DENVER
JUN 16 1952

Mining Division
Region IV

December 14, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1191X, Newton and Flagstaff Claims (Lead-Zinc), California Mining District, Lake County, Colorado. Applicants, John and Fred Joyce, 419 East 5th Street, Leadville, Colorado

The application of the subject docket was for government assistance in exploration work estimated to cost $30,600. Work proposals consisted of the construction of a hoist room and head frame; rehabilitation of the shaft and 500 feet of drifting and raising.

The examining team recommend the exploration project on a revised basis. Work proposals to include the necessary preliminary work, but the amount of drifting and raising to be increased to 900 feet, and a revisal of estimated total cost to the amount of $23,700. Government participation would be 50 per cent, or $11,850.

We concur with the recommendations of the examining team.

Paul T. Allsman

Paul T. Allsman

Reviewed by
DMA OPERATING COMMITTEE
6-20-52
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

December 4, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1191X, Newton and Flagstaff Lead Claims, Leadville, Colorado, John and Fred Joyce, Applicants.

Attached are 8 copies of the geologic report by Ogden Tweto covering the Newton and Flagstaff Lead claims, Leadville district, Colorado.

Although this property produced ore at one time, it has not been worked for at least 35 years. No map is available and very little specific information concerning the mine can be obtained. Neither is much known of the neighboring mines. However, the area in which the mine is located is mineralized. The applicants are widely respected as competent and canny miners, and although this project in some ways is a wildcat venture, Tweto, because of the good reputation of the applicants and with the knowledge that the mine is in a geologically favorable area, recommends approval of the loan.

I concur with this recommendation.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
December 12, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 1191X, Newton and Flagstaff Claims, California Mining District, Lake County, Colorado

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations", by Ogden Tweto and M. N. Salsbury, on the above docket and the same number of copies of Salsbury's "Engineering Report".

The application received approval geologically and Salsbury made his engineering investigation and report, collaborating with Tweto on the "Summary, Conclusions, and Recommendations". They agree, and it is apparent, that the project is a "long shot". However, it is probably justified in view of the fact that the location is the best known in the immediate area for prospecting several of the most favorable contacts. The sincerity and mining ability of the applicants are unquestioned and they are willing to risk their time and capital in the venture.

I concur with the examiners' recommendations.

W. M. Traver, Jr.
W. M. Traver, Jr.

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1191X, Marion and Flagstaff Lead Claims

California Mining District

Lake County, Colorado

Lead-Zinc

Ogden Tweto, Geologist
U. S. Geological Survey

M. H. Salsbury, Mining Engineer
Bureau of Mines

December 11, 1951

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By Ogden Tweto
Geologist
U. S. Geological Survey

and

M. H. Salsbury
Mining Engineer
Bureau of Mines

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Ogden Tweto and M. H. Salsbury

The Newton and Flagstaff claims are on the north slope of Iron Hill in the California Mining District, Lake County, Colo. The East Flagstaff shaft, the principal shaft on the property, and the only one open, is near the Stray Horse Gulch road.

The mine was worked 50 to 75 years ago and is generally reported to have produced considerable lead carbonate ore. No maps or production records can be found and the location and geological occurrence of the ore and the location and extent of the workings are not known. The period of operation antedates U. S. Bureau of Mines statistical records. The shaft is open to waterlevel at 505 feet and is reported as 573 feet deep, bottoming in Cambrian quartzite.

The shaft lies just west of the Adelaide fault. On the west side of the fault, almost all of the ore horizons or contacts of the Leadville district are present. On the east side, only the lower contacts up to the base of the Blue limestone are present.

Past production from the Flagstaff probably came principally from the Blue limestone west of the fault as it did from several highly productive neighboring mines, notably the Ward-Adelaide and Humboldt. The lower contacts are probably little explored, if at all, but would be a logical target for future development.

The applicants have applied for a loan of $30,600.00 (Government participation $15,300.00) to reopen the mine through the East Flagstaff shaft and drive a drift 500 feet northward from a level near the shaft bottom. Apparently a short drift already exists which could be extended. The purpose of such a drift, according to the applicants, is to intersect a northeast ore trend which, from their experience on neighboring properties, they believe crosses the Flagstaff claim north of the above shaft. The existence of such a trend cannot be substantiated but Leadville geologists and mining people recognize the applicants as able, shrewd miners as well as authorities on this particular area and are, therefore, inclined to put considerable faith in the applicants' theories. The ore trend is evidently viewed with respect to the Blue limestone only, but it should be considered with respect to the lower ore horizons as well. These can be explored without deepening the Flagstaff shaft by driving eastward across the Adelaide fault and, to some extent, by the same work to explore the Blue limestone to the north as proposed by the applicants.

The Joyce brothers in their application have set up a working schedule of 18 months and a development estimate of 500 feet. This relation is entirely out of proportion, and, after consultation with the Bureau of Mines examining engineer, they have revised this to a total of not over 900 feet of work which can easily be completed in 15 months' time.

A crew of three men was listed in the application, to be increased to five men after shaft repairs are completed. The applicants say they

intend to use only three men on development work and that the extra men will be used only when and if ore extraction is started.

The estimates of preliminary cost are necessarily made without much specific information other than that the shaft is open and will need repairing for at least 50 feet from surface, with possibly only minor repairs below that. A specific plan of development must await examination of the mine workings. Thus, the Flagstaff project can be classed only as a wildcat venture. But the mine is in a productive area, several contacts are probably unexplored, and an ore trend probably extends into an unexplored section of the Blue limestone. The best recommendation other than generally favorable geology is the fact that experienced local miners in very moderate circumstances are willing to put their labor and capital into the development of the claims.

Because of the lateness of the season and the difficulty and increased expense of starting an operation in midwinter, the applicants do not intend to start work until May 1952 if the loan is approved.

An alternate project requiring $23,700.00 (Government participation - $11,850.00) is recommended for approval.

NEWTON AND FLAGSTAFF LEAD CLAIMS

LEADVILLE, COLORADO

JOHN AND FRED JOYCE, APPLICANTS

DMA DOCKET 1191X

Geologic Report

By Ogden Tweto
U. S. Geological Survey
Denver, Colorado

NEWTON AND FLAGSTAFF LEAD CLAIMS
LEADVILLE, COLORADO

INTRODUCTION

The Flagstaff and Newton claims are in the Adelaide Park area, on the extreme north end of Iron Hill (SE¼ sec. 19, T. 9 N., R. 79 W.), in the Leadville district, Colorado. The East Flagstaff shaft is 700 feet south of the Stray Horse Gulch road, and 500 feet west of the Adelaide Park road, at an elevation of about 10890 feet. This is the principal shaft on the property and the only one that is open. The West Flagstaff shaft, 300 feet northwest of the East shaft, is badly caved.

The Flagstaff (U. S. Survey No. 348) and Newton (U. S. Survey No. 2470) claims are owned by Nellie L. Champion and leased by John and Fred Joyce for a 5-year period ending June 1, 1956.

The Flagstaff mine has not been worked for at least 35 years, and possibly as much as 50 years. No map is available, and very little specific information concerning the mine can be obtained. The mine and the loan application are consequently difficult to appraise. The shaft, which is open and in fair condition, although it would require some retimbering before it could be used, is said to be 573 feet deep. The water stands at 505 feet according to recent measurements made in connection with the Leadville Drainage Tunnel. The location and extent of the levels is not known. Neither is much known of the neighboring mines, as they have not been worked intensively for 50 or 60 years. The Joyce brothers, the applicants, have worked many of these mines on a small but

profitable scale and are generally regarded in Leadville as the only people who have much first-hand information on the area.

The Joyce brothers believe that an ore "shoot" or trend runs northeasterly from the Adelaide property, west of the Flagstaff, to the Dolomite shaft, north of the Flagstaff. It is for this reason that they propose to drift northward toward the Dolomite shaft. The existence of such an "ore trend" cannot be checked, but the Leadville geologists and mining people to whom I have gone for information on this area have all referred me back to the Joyces, who are widely respected as able and canny miners. Indeed, one leading geologist said that he knew nothing of the area, but that if the Joyces were interested, it was probably a good shot.

GEOLOGY

The Flagstaff mine is just west of the Adelaide fault (see pl. 13, Prof. Paper 148), a northwest-trending and southwest-dipping normal fault with about 500 feet displacement. On the southwest side of the fault, the top of the granite lies about 1000 feet below the collar of the Flagstaff shaft. From the granite upward the section, as deduced from section M-M; Pl. 17, Prof. Paper 148, is: Sawatch ("Cambrian") quartzite, ca. 100 feet; Peerless formation ("Transition shale") 75 feet; Gray porphyry, 150 feet; Manitou dolomite ("White limestone") 100 feet; Parting quartzite, 40 feet; Dyer dolomite (portion of lower part of "Blue limestone") 50 feet; Gray porphyry, 90 feet; Dyer dolomite, and lower part of Leadville limestone, locally with a thin sill of Gray porphyry, 120 feet; White porphyry, ca. 250 feet. An old shaft log, of

unknown origin and questionable accuracy, in posession of the A. S. & R. Co. shows substantially this sequence, if some "porphyry" is interpreted as quartzite, except that it shows only 95 feet of porphyry beneath the bedrock surface. On the footwall, eastern, or upthrown side of the fault, the top of the granite is only about 450 feet below the collar of the Flagstaff shaft, and the Parting quartzite, or the basal beds of the Dyer dolomite, lie at the bedrock surface.

The location and occurrence of ore mined in the past is no known. Presumably it came chiefly from the "Blue limestone" in the downthrown block, but some may have come from the Peerless formation in the upthrown block and in juxtaposition with the Blue limestone. The very considerable output of lead carbonate ore made from neighboring mines to the west came primarily from the two contacts of the porphyry body in the basal part of the "Blue limestone." Considerable lead carbonate ore was produced also from several mines in the Blue limestone on the east side of the Adelaide fault, north of the Flagstaff mine. Chief among these was the Dolomite mine, in Stray Horse Gulch. Square-set timbers of the stopes of this area are right at the surface. As the formations here have a northerly dip, the Blue limestone wedges out southward against the bedrock surface, and is also thinned by discordant Gray porphyry, so that only a feather edge of Blue limestone is present at the bedrock surface on the east side of the Adelaide fault at the latitude of the Flagstaff shaft.

The Flagstaff mine is generally considered to have been a fairly productive mine, but the records of the Economics and Statistics Division of the Bureau of Mines, which go back to 1901, show no shipments in the last 50 years at least. The ore was principally lead carbonate, but

sulfide ore was encountered some place, presumably on the lower levels. According to a note of Emmons', considerable dragged-in galena ore was found in the Adelaide fault, which was explored by drifts several hundred feet long. It is not known whether the source of this ore was ever found. A small area on the Flagstaff dump is covered with massive pyrite, presumably barren, the source of which is not known.

CONCLUSIONS

Very little can be learned of the Flagstaff mine. Like several neighboring mines, it was productive 50 to 75 years ago, but no records of production, workings, or geology can be found. Thus there is nothing positive on which to base a conclusion, and the project, if approved, would be essentially a "wildcat" project. There are certain arguments in favor of such a project:

(1) The area is mineralized, as attested by the past production of lead carbonate ore from it.

(2) Practically all the productive horizons or "contacts" of the Leadville district are present there, at least on the west side of the Adelaide fault.

(3) Past operations were conducted long ago and were relatively shallow; the contacts below the Blue limestone are probably little explored.

(4) The Flagstaff shaft, probably the deepest in the vicinity, is already down more than 500 feet, and the lower ore horizons can be explored from it either by driving eastward into the footwall of the Adelaide fault or by cross-cutting northward in the hanging wall as the applicants propose.

(5) The applicants, who are recognized in Leadville as the best authorities on the area, state that low-grade lead ore, now workable, was left during earlier operations, and they believe, from their past experience with adjoining properties, that an "ore trend" extends northeastward onto the Flagstaff property north of the shaft, where they propose to explore.

(6) The applicants are widely respected as able and discerning miners. They have spent their lives in projects such as this, and in so doing have succeeded in making a livelihood and in producing considerable ore. Responsible mining people think well enough of them to regard their interest in a project such as this as a strong recommendation of the project.

Thus, as a wildcat venture, this project has much to commend it. In my understanding, such projects are within the scope of the Exploration Loan plan, and I recommend it for approval, emphasizing that it is a wildcat venture. Little or nothing may come of it, but if a discovery is made, there is good possibility of a substantial output of lead ore.

The cost of the project has been reduced from $30,600 to $23,700 in the accompanying engineering report, and the amount of drifting and crosscutting raised from 500 to 900 feet.

RECOMMENDATIONS

The Flagstaff project is a wildcat venture that has several arguments in its favor. It may yield little or nothing, or it may produce handsomely. A project to cost $23,700 (Government participation 50%, or $11,850) is recommended for approval. This project provides for

re-opening the mine, driving northward a maximum of 500 feet on a level near the bottom of the shaft, and, depending on the geology and the workings found when the mine becomes accessible, doing some work to explore some of the lower contacts on both sides of the Adelaide fault.

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

Engineering Report

By M. H. Salsbury
Mining Engineer
Bureau of Mines

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

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ILLUSTRATIONS

Figure — Follows Page

1. Location map, Newton and Flagstaff Claims, Lake County, Colorado 1

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

ENGINEERING REPORT

By

M. H. Salsbury

INTRODUCTION

An examination of the Newton and Flagstaff claims was made in October 1951 to verify the facts presented in the application for a loan submitted by John and Fred Joyce, Defense Minerals Administration Docket 1191X. The application requests an exploration loan of $30,600.00 (Government participation $15,300.00) for the purpose of constructing a surface plant, rehabilitating the East Flagstaff shaft, and doing lateral development. This work is to be done by a crew of three men, all of whom are to draw nominal wages and have an interest in the enterprise.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property is located on the north slope of Iron Hill, California Mining District, Leadville, Lake County, Colo. (fig. 1), near the Stray Horse Gulch road. The region is one of high to moderate relief and the elevation of the cellar of the principal shaft is 10,896 feet.

The shaft is three miles from the lead-zinc concentrator of the Resurrection Mining Company and the Arkansas Valley smelter of the American Smelting and Refining Company.

The climate is characterized by cool summers and long, severe winters. The nearby county road is kept open and operation is possible throughout the winter.

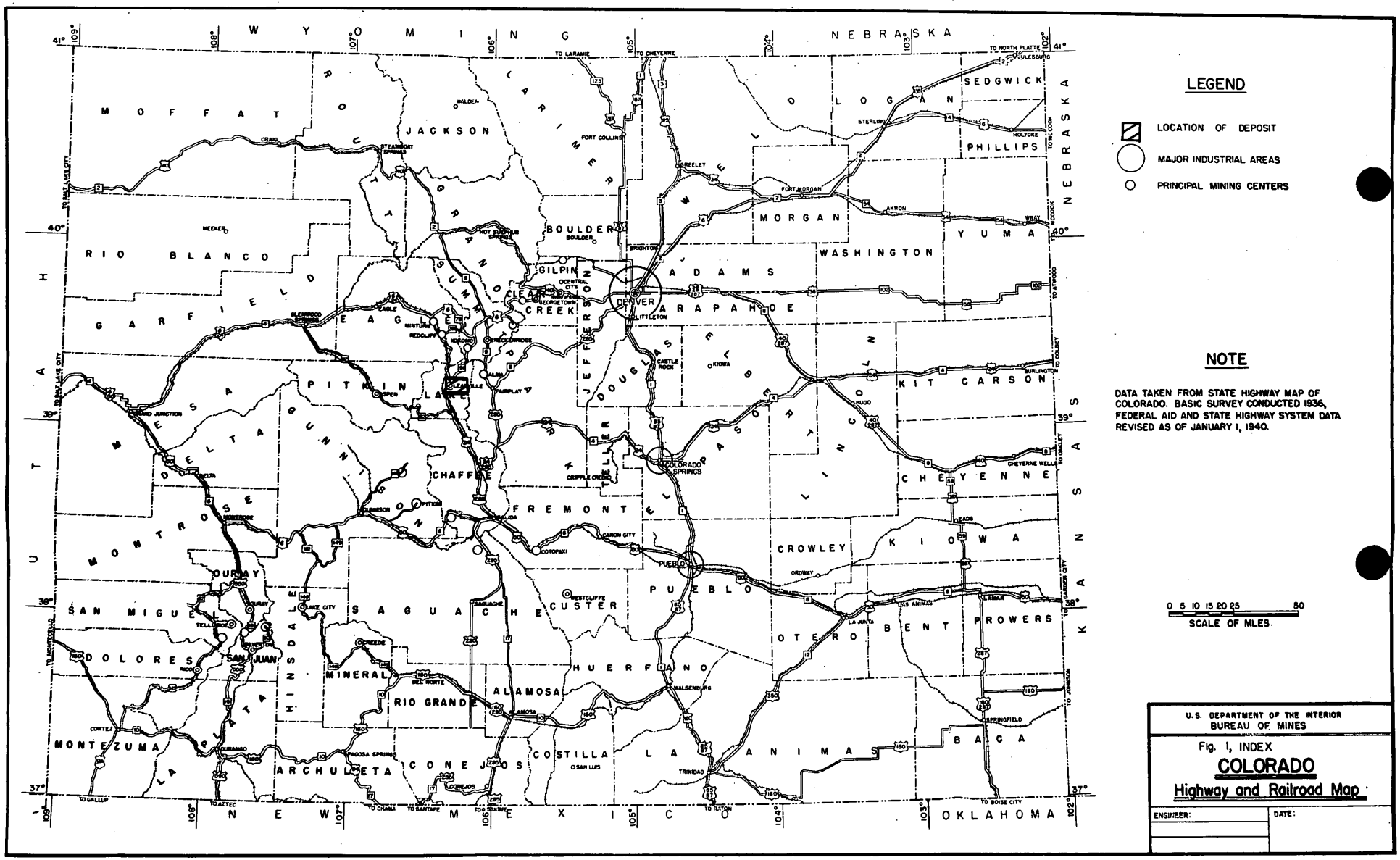

Fig. 1. Newton & Flagstaff Claims Lake County, Colorado DMA 1191X

HISTORY AND PRODUCTION

The Flagstaff mine has been standing idle for at least 3½ years. No maps have been located. The period of productive operation must have preceded the time when the statistical records of the U. S. Bureau of Mines were started as there is no mention of production from the Flagstaff or Newton.

The water level in the East Flagstaff shaft, as determined by recent measurement, is 505 feet below the collar. The total depth of the shaft is given as 573 feet.

Production from the Flagstaff probably came from shallow Blue limestone horizons as it did from neighboring mines, notably the Adelaide-Ward and Humboldt. Records on these mines are also scanty. The applicants, John and Fred Joyce, are probably more familiar with this area than any other local residents. They have worked the shallow deposits of the Ward and Humboldt in and around old stopes for a number of years and the present proposal is the result of their experience. They report a definite north-east ore trend in a Blue limestone ore shoot they worked at surface on the Ward which, at greater depth, ought to be present in the area they propose to explore from the Flagstaff shaft.

OWNERSHIP AND EXTENT

The two claims--the Flagstaff, survey number 348, and the Newton, survey number 2470, a total of 15.25 acres--are in secs. 19 and 30, T. 9 N., R. 79 W., California Mining District, Leadville, Colo. They are owned by Nellie L. Champion, N. A. Anderson, agent, 909 South Ellipse Way, Denver, Colo.

DESCRIPTION OF THE DEPOSITS

The Flagstaff shaft is located just west of the Adelaide fault, one of the major faults of the district. It is a normal fault with an approximate 500-foot displacement and a northwest strike and southwest dip. On the southwest side of the fault, the granite is about 1,000 feet below the surface and almost all of the ore horizons are present. However, on the eastern or footwall side, only the lower contacts up to the base of the Blue limestone are found. On this side of the fault, the granite is about 450 feet below the surface and the northerly dipping formations wedge out at the south.

Carbonate ore from the Flagstaff probably accounted for most of the production and the sulfide ores were less important. Although no records are available, the sulfide ore, no doubt, came from the lower levels or from the drifting reported along the Adelaide fault.

MINABLE ORE RESERVES

There are no known ore reserves. Because mine workings are inaccessible, it is impossible to make an appraisal of the ore which may be left in the property.

PRESENT STATUS

The property is developed by several shafts. Of these, only the East Flagstaff, reported to be 573 feet deep, is open and in usable condition with some repairs. The number of levels and extent of lateral workings is unknown except for a note in a report on Leadville shafts made for the American Smelting and Refining Company which gives the elevation of the second level as 10,620 feet or about 279 feet below the collar. The same report gives a shaft log with a

geological section accompanying this report. There are several gaps in the American Smelting and Refining Company's report, however, one of which is the failure to list a formation which could be identified as the Parting quartzite. The total section from surface to pre-Cambrian granite is approximately 709 feet in the report, allowing 136 feet of Cambrian quartzite below the shaft bottom. This is 264 feet less than inferred in the above-mentioned geological report.

PROJECT PROPOSALS, WITH COSTS

The applicants propose to erect a headframe and hoist room, install a gasoline hoist and compressor, rehabilitate the East Flagstaff shaft, and do 500 feet of lateral and/or raise work in 18 months. After consultation with the examining team, they realized they had allowed too much time for this amount of development but that 500 feet of development is probably a bare minimum to prove the property. Therefore, a time schedule of 15 months and a total of 900 feet of development have been set up.

The figures on preliminary work in the shaft are no more than a reasonable guess as it is not possible to obtain better information concerning its condition. The amount of development necessary is also a guess but the cost per foot and rate of advance of development are probably close when the labor setup as proposed is considered.

The applicants have a gasoline hoist, buckets, mine cars, ventilating fan and pipe, and small tools which they propose to furnish at a rental value of $100.00 per month. All other equipment must be purchased or rented.

Cost Estimate
(For Exhibit A)

The rental costs are based on local rental rates when the equipment can be obtained locally and on rates of Associated Equipment Distributors where it must be obtained elsewhere.

Fixtures and Improvements (Article 5 of contract)

Headframe, 20 feet high, materials	$250.00	
Sheave wheel, 24-inch	20.00	
Hoist house, 10 feet x 20 feet		
Lumber	90.00	
8 squares of roofing	46.00	
Hardware, windows	20.00	
Foundation materials, hoist and compressor	35.00	
Labor, erection of surface plant, 3 men at $250.00 per month each, 1 month	750.00	
Compensation insurance and taxes	75.00	$1,286.00

Rehabilitation and Repairs (Article 9 of contract)

Shaft repairs, materials for 50 feet of cribbing		
5,000 feet of 3-inch x 8-inch cribbing at $65.00 per thousand	$325.00	
Nails, wedges, lining boards, etc.	40.00	
500 feet of 2-inch pipe line for shaft at $.32 per foot	160.00	
Labor, shaft repairs, 3 men at $250.00 per month, 2 months	1,500.00	
Compensation insurance and taxes	150.00	2,175.00

Operating Equipment (Article 6 of contract)

750 feet, 5/8-inch (6 x 19) hoisting cable	$ 113.00	
Gasoline hoist, buckets, mine cars, and small tools at $100.00 per month, to be rented from applicants, 14 months	1,400.00	
1 drill gasoline compressor at $164.00 per month, 12 months	1,968.00	
1 mounted rock drill at $73.50 per month, 12 months	882.00	
Auxiliary drilling equipment, hoses	75.00	
Cross bar, or column, and clamp	45.00	
Pressure water tank	20.00	
Air receiver, secondhand	100.00	4,603.00

Exploration

900 feet of lateral openings and/or raises to be driven at the rate of 75 feet per month:

Labor, 3 men at $250.00 per month, 1 month	$750.00
Compensation insurance and taxes	75.00
Lubricating oil, gasoline, fuel for heating	115.00
Powder, caps, and fuses	225.00
Track, 75 feet of 12-pound	50.00
Ties	8.00
Pipe, 75 feet of 2-inch black	24.00
Detachable rock bits and drill steel replacement	25.00
Incidentals	11.00
Assaying	20.00
Total per month	$1,303.00
Operations for 12 months	15,636.00
Total	$23,700.00

Labor and Supervision schedule for Article 8 of contract:

Operating personnel

1 - Hoistman
1 - Miner-supervisor
1 - Mucker, or helper
2 - Additional miners, if and when ore is mined

These men will be partners in the lease and will receive remuneration at the rate of $250.00 per month each, according to the application.

It is expected that top efficiency will be obtained with this class of workmen and they may exceed the estimated 3 feet of development advance daily. However, at 3 feet per day, the overall cost exclusive of preliminary construction and repairs, is estimated at $15,636.00 for 900 feet, or $17.37 per foot. This is considerably less than it would be with hired labor at current rates.

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CONCLUSIONS

The proposed development has a good chance of opening up lead-zinc ore deposits. The applicants are competent miners and have a good reputation in the community. Under this arrangement where all the work is to be done by the partners, the development will be done at a much lower cost than is usually the case.

RECOMMENDATIONS

It is recommended that a loan of $23,700.00 (Government participation $11,850.00) be approved. It is understood that the applicants will not start work until May 1952 if the loan is approved.

Mining Division
Region IV

December 14, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket X191X, Newton and Flagstaff Claims (Lead-Zinc), California Mining District, Lake County, Colorado. Applicants, John and Fred Joyce, 419 East 5th Street, Leadville, Colorado

The application of the subject docket was for government assistance in exploration work estimated to cost $30,600. Work proposals consisted of the construction of a hoist room and head frame; rehabilitation of the shaft and 300 feet of drifting and raising.

The examining team recommend the exploration project on a revised basis. Work proposals to include the necessary preliminary work, but the amount of drifting and raising to be increased to 900 feet, and a revisal of estimated total cost to the amount of $23,700. Government participation would be 50 per cent, or $11,850.

We concur with the recommendations of the examining team.

Paul T. Allsman

Reviewed by
DMEA OPERATING COMMITTEE
6-20-52
(DATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

December 4, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1191X, Newton and Flagstaff Lead Claims, Leadville, Colorado, John and Fred Joyce, Applicants.

Attached are 8 copies of the geologic report by Ogden Tweto covering the Newton and Flagstaff Lead claims, Leadville district, Colorado.

Although this property produced ore at one time, it has not been worked for at least 35 years. No map is available and very little specific information concerning the mine can be obtained. Neither is much known of the neighboring mines. However, the area in which the mine is located is mineralized. The applicants are widely respected as competent and canny miners, and although this project in some ways is a wildcat venture, Tweto, because of the good reputation of the applicants and with the knowledge that the mine is in a geologically favorable area, recommends approval of the loan.

I concur with this recommendation.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Attachments (8)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado
December 12, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA 1191X, Newton and Flagstaff Claims, California Mining District, Lake County, Colorado

Please find enclosed the original and seven copies of the "Summary, Conclusions, and Recommendations", by Ogden Tweto and M. H. Salsbury, on the above docket and the same number of copies of Salsbury's "Engineering Report".

The application received approval geologically and Salsbury made his engineering investigation and report, collaborating with Tweto on the "Summary, Conclusions, and Recommendations". They agree, and it is apparent, that the project is a "long shot". However, it is probably justified in view of the fact that the location is the best known in the immediate area for prospecting several of the most favorable contacts. The sincerity and mining ability of the applicants are unquestioned and they are willing to risk their time and capital in the venture.

I concur with the examiners' recommendations.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1191X, Newton and Flagstaff Lead Claims

California Mining District

Lake County, Colorado

Lead-Zinc

Ogden Tweto, Geologist
U. S. Geological Survey

M. H. Salsbury, Mining Engineer
Bureau of Mines

December 11, 1951

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

Summary, Conclusions , and Recommendations

By Ogden Tweto
Geologist
U. S. Geological Survey

and

M. H. Salsbury
Mining Engineer
Bureau of Mines

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Ogden Tweto and M. H. Salsbury

The Newton and Flagstaff claims are on the north slope of Iron Hill in the California Mining District, Lake County, Colo. The East Flagstaff shaft, the principal shaft on the property, and the only one open, is near the Stray Horse Gulch road.

The mine was worked 50 to 75 years ago and is generally reported to have produced considerable lead carbonate ore. No maps or production records can be found and the location and geological occurrence of the ore and the location and extent of the workings are not known. The period of operation antedates U. S. Bureau of Mines statistical records. The shaft is open to water level at 505 feet and is reported as 573 feet deep, bottoming in Cambrian quartzite.

The shaft lies just west of the Adelaide fault. On the west side of the fault, almost all of the ore horizons or contacts of the Leadville district are present. On the east side, only the lower contacts up to the base of the Blue limestone are present.

Past production from the Flagstaff probably came principally from the Blue limestone west of the fault as it did from several highly productive neighboring mines, notably the Ward-Adelaide and Humboldt. The lower contacts are probably little explored, if at all, but would be a logical target for future development.

The applicants have applied for a loan of $30,600.00 (Government participation $15,300.00) to reopen the mine through the East Flagstaff shaft and drive a drift 500 feet northward from a level near the shaft bottom. Apparently a short drift already exists which could be extended. The purpose of such a drift, according to the applicants, is to intersect a northeast ore trend which, from their experience on neighboring properties, they believe crosses the Flagstaff claim north of the above shaft. The existence of such a trend cannot be substantiated but Leadville geologists and mining people recognize the applicants as able, shrewd miners as well as authorities on this particular area and are, therefore, inclined to put considerable faith in the applicants' theories. The ore trend is evidently viewed with respect to the Blue limestone only, but it should be considered with respect to the lower ore horizons as well. These can be explored without deepening the Flagstaff shaft by driving eastward across the Adelaide fault and, to some extent, by the same work to explore the Blue limestone to the north as proposed by the applicants.

The Joyce brothers in their application have set up a working schedule of 18 months and a development estimate of 500 feet. This relation is entirely out of proportion, and, after consultation with the Bureau of Mines examining engineer, they have revised this to a total of not over 900 feet of work which can easily be completed in 15 months' time.

A crew of three men was listed in the application, to be increased to five men after shaft repairs are completed. The applicants say they

intend to use only three men on development work and that the extra men will be used only when and if ore extraction is started.

The estimates of preliminary cost are necessarily made without much specific information other than that the shaft is open and will need repairing for at least 50 feet from surface, with possibly only minor repairs below that. A specific plan of development must await examination of the mine workings. Thus, the Flagstaff project can be classed only as a wildcat venture. But the mine is in a productive area, several contacts are probably unexplored, and an ore trend probably extends into an unexplored section of the Blue limestone. The best recommendation other than generally favorable geology is the fact that experienced local miners in very moderate circumstances are willing to put their labor and capital into the development of the claims.

Because of the lateness of the season and the difficulty and increased expense of starting an operation in midwinter, the applicants do not intend to start work until May 1952 if the loan is approved.

An alternate project requiring $23,700.00 (Government participation—$11,850.00) is recommended for approval.

NEWTON AND FLAGSTAFF LEAD CLAIMS

LEADVILLE, COLORADO

JOHN AND FRED JOYCE, APPLICANTS

DMA DOCKET 1191X

Geologic Report

By Ogden Tweto
U. S. Geological Survey
Denver, Colorado

NEWTON AND FLAGSTAFF LEAD CLAIMS
LEADVILLE, COLORADO

INTRODUCTION

The Flagstaff and Newton claims are in the Adelaide Park area, on the extreme north end of Iron Hill (SE$\frac{1}{4}$ sec. 19, T. 9 N., R. 79 W.), in the Leadville district, Colorado. The East Flagstaff shaft is 700 feet south of the Stray Horse Gulch road, and 500 feet west of the Adelaide Park road, at an elevation of about 10890 feet. This is the principal shaft on the property and the only one that is open. The West Flagstaff shaft, 300 feet northwest of the East shaft, is badly caved.

The Flagstaff (U. S. Survey No. 348) and Newton (U. S. Survey No. 2470) claims are owned by Nellie L. Champion and leased by John and Fred Joyce for a 5-year period ending June 1, 1956.

The Flagstaff mine has not been worked for at least 35 years, and possibly as much as 50 years. No map is available, and very little specific information concerning the mine can be obtained. The mine and the loan application are consequently difficult to appraise. The shaft, which is open and in fair condition, although it would require some retimbering before it could be used, is said to be 573 feet deep. The water stands at 505 feet according to recent measurements made in connection with the Leadville Drainage Tunnel. The location and extent of the levels is not known. Neither is much known of the neighboring mines, as they have not been worked intensively for 50 or 60 years. The Joyce brothers, the applicants, have worked many of these mines on a small but

profitable scale and are generally regarded in Leadville as the only people who have much first-hand information on the area.

The Joyce brothers believe that an ore "shoot" or trend runs northeasterly from the Adelaide property, west of the Flagstaff, to the Dolomite shaft, north of the Flagstaff. It is for this reason that they propose to drift northward toward the Dolomite shaft. The existence of such an "ore trend" cannot be checked, but the Leadville geologists and mining people to whom I have gone for information on this area have all referred me back to the Joyces, who are widely respected as able and canny miners. Indeed, one leading geologist said that he knew nothing of the area, but that if the Joyces were interested, it was probably a good shot.

GEOLOGY

The Flagstaff mine is just west of the Adelaide fault (see pl. 13, Prof. Paper 148), a northwest-trending and southwest-dipping normal fault with about 500 feet displacement. On the southwest side of the fault, the top of the granite lies about 1000 feet below the collar of the Flagstaff shaft. From the granite upward the section, as deduced from section M-M; Pl. 17, Prof. Paper 148, is: Sawatch ("Cambrian") quartzite, ca. 100 feet; Peerless formation ("Transition shale") 75 feet; Gray porphyry, 150 feet; Manitou dolomite ("White limestone") 100 feet; Parting quartzite, 40 feet; Dyer dolomite (portion of lower part of "Blue limestone") 50 feet; Gray porphyry, 90 feet; Dyer dolomite, and lower part of Leadville limestone, locally with a thin sill of Gray porphyry, 120 feet; White porphyry, ca. 250 feet. An old shaft log, of

unknown origin and questionable accuracy, in posession of the A. S. & R. Co. shows substantially this sequence, if some "porphyry" is interpreted as quartzite, except that it shows only 95 feet of porphyry beneath the bedrock surface. On the footwall, eastern, or upthrown side of the fault, the top of the granite is only about 450 feet below the collar of the Flagstaff shaft, and the Parting quartzite, or the basal beds of the Dyer dolomite, lie at the bedrock surface.

The location and occurrence of ore mined in the past is not known. Presumably it came chiefly from the "Blue limestone" in the downthrown block, but some may have come from the Peerless formation in the upthrown block and in juxtaposition with the Blue limestone. The very considerable output of lead carbonate ore made from neighboring mines to the west came primarily from the two contacts of the porphyry body in the basal part of the "Blue limestone." Considerable lead carbonate ore was produced also from several mines in the Blue limestone on the east side of the Adelaide fault, north of the Flagstaff mine. Chief among these was the Dolomite mine, in Stray Horse Gulch. Square-set timbers of the stopes of this area are right at the surface. As the formations here have a northerly dip, the Blue limestone wedges out southward against the bedrock surface, and is also thinned by discordant Gray porphyry, so that only a feather edge of Blue limestone is present at the bedrock surface on the east side of the Adelaide fault at the latitude of the Flagstaff shaft.

The Flagstaff mine is generally considered to have been a fairly productive mine, but the records of the Economics and Statistics Division of the Bureau of Mines, which go back to 1901, show no shipments in the last 50 years at least. The ore was principally lead carbonate, but

sulfide ore was encountered some place, presumably on the lower levels. According to a note of Emmons', considerable dragged-in galena ore was found in the Adelaide fault, which was explored by drifts several hundred feet long. It is not known whether the source of this ore was ever found. A small area on the Flagstaff dump is covered with massive pyrite, presumably barren, the source of which is not known.

CONCLUSIONS

Very little can be learned of the Flagstaff mine. Like several neighboring mines, it was productive 50 to 75 years ago, but no records of production, workings, or geology can be found. Thus there is nothing positive on which to base a conclusion, and the project, if approved, would be essentially a "wildcat" project. There are certain arguments in favor of such a project:

(1) The area is mineralized, as attested by the past production of lead carbonate ore from it.

(2) Practically all the productive horizons or "contacts" of the Leadville district are present there, at least on the west side of the Adelaide fault.

(3) Past operations were conducted long ago and were relatively shallow; the contacts below the Blue limestone are probably little explored.

(4) The Flagstaff shaft, probably the deepest in the vicinity, is already down more than 500 feet, and the lower ore horizons can be explored from it either by driving eastward into the footwall of the Adelaide fault or by cross-cutting northward in the hanging wall as the applicants propose.

(5) The applicants, who are recognized in Leadville as the best authorities on the area, state that low-grade lead ore, now workable, was left during earlier operations, and they believe, from their past experience with adjoining properties, that an "ore trend" extends northeastward onto the Flagstaff property north of the shaft, where they propose to explore.

(6) The applicants are widely respected as able and discerning miners. They have spent their lives in projects such as this, and in so doing have succeeded in making a livelihood and in producing considerable ore. Responsible mining people think well enough of them to regard their interest in a project such as this as a strong recommendation of the project.

Thus, as a wildcat venture, this project has much to commend it. In my understanding, such projects are within the scope of the Exploration Loan plan, and I recommend it for approval, emphasizing that it is a wildcat venture. Little or nothing may come of it, but if a discovery is made, there is good possibility of a substantial output of lead ore.

The cost of the project has been reduced from $30,600 to $23,700 in the accompanying engineering report, and the amount of drifting and crosscutting raised from 500 to 900 feet.

RECOMMENDATIONS

The Flagstaff project is a wildcat venture that has several arguments in its favor. It may yield little or nothing, or it may produce handsomely. A project to cost $23,700 (Government participation 50%, or $11,850) is recommended for approval. This project provides for

re-opening the mine, driving northward a maximum of 500 feet on a level near the bottom of the shaft, and, depending on the geology and the workings found when the mine becomes accessible, doing some work to explore some of the lower contacts on both sides of the Adelaide fault.

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

Engineering Report

By M. H. Salsbury
Mining Engineer
Bureau of Mines

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

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ILLUSTRATIONS

Figure	Follows Page
1. Location map, Newton and Flagstaff Claims, Lake County, Colorado	1

NEWTON AND FLAGSTAFF LEAD CLAIMS
CALIFORNIA MINING DISTRICT
LAKE COUNTY, COLORADO

ENGINEERING REPORT

By

M. H. Salsbury

INTRODUCTION

An examination of the Newton and Flagstaff claims was made in October 1951 to verify the facts presented in the application for a loan submitted by John and Fred Joyce, Defense Minerals Administration Docket 1191X. The application requests an exploration loan of $30,600.00 (Government participation $15,300.00) for the purpose of constructing a surface plant, rehabilitating the East Flagstaff shaft, and doing lateral development. This work is to be done by a crew of three men, all of whom are to draw nominal wages and have an interest in the enterprise.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property is located on the north slope of Iron Hill, California Mining District, Leadville, Lake County, Colo. (fig. 1), near the Stray Horse Gulch road. The region is one of high to moderate relief and the elevation of the collar of the principal shaft is 10,896 feet.

The shaft is three miles from the lead-zinc concentrator of the Resurrection Mining Company and the Arkansas Valley smelter of the American Smelting and Refining Company.

The climate is characterized by cool summers and long, severe winters. The nearby county road is kept open and operation is possible throughout the winter.

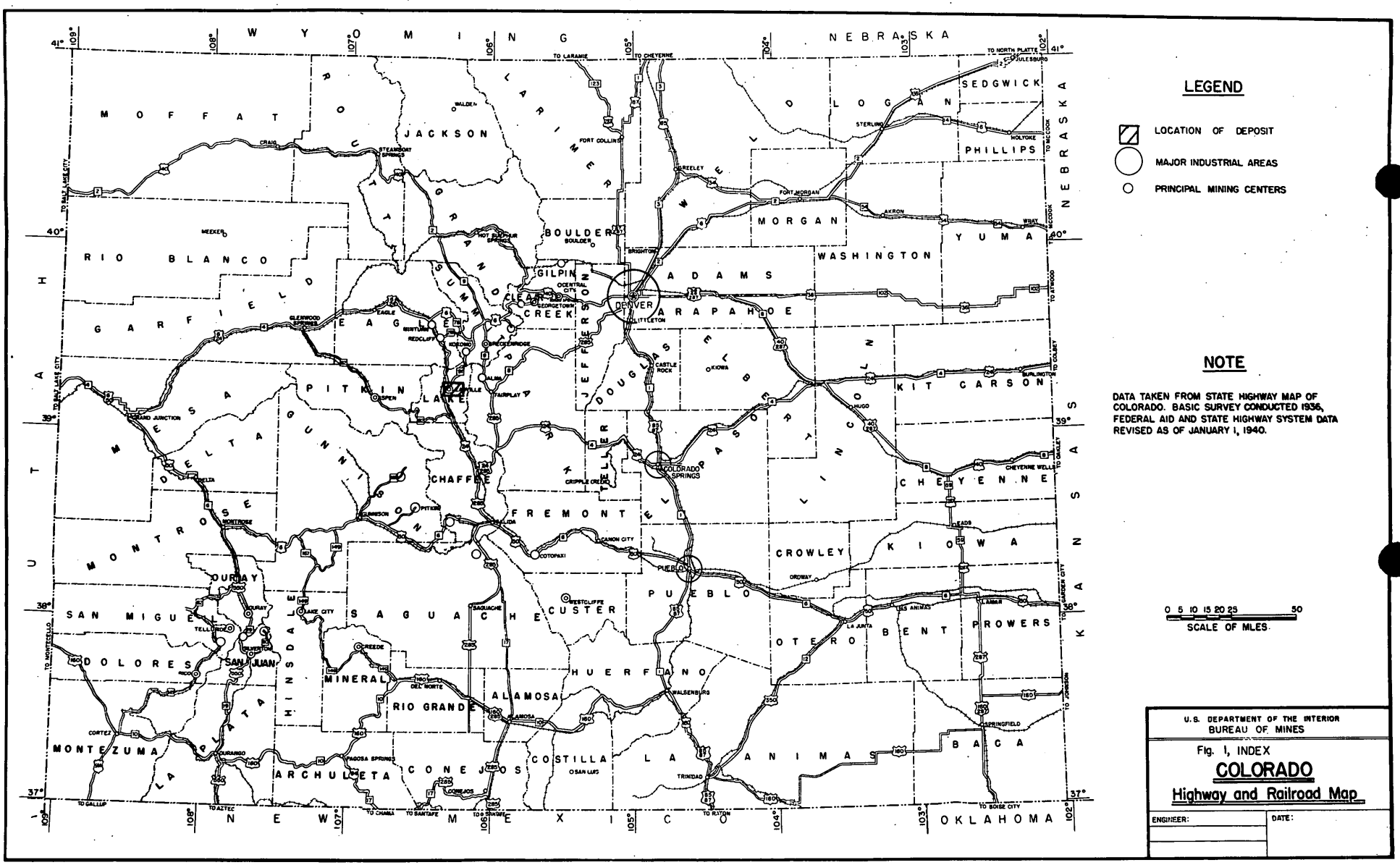

Fig. 1. Newton & Flagstaff Claims Lake County, Colorado DMA 1191X

HISTORY AND PRODUCTION

The Flagstaff mine has been standing idle for at least 35 years. No maps have been located. The period of productive operation must have preceded the time when the statistical records of the U. S. Bureau of Mines were started as there is no mention of production from the Flagstaff or Newton.

The water level in the East Flagstaff shaft, as determined by recent measurement, is 505 feet below the collar. The total depth of the shaft is given as 573 feet.

Production from the Flagstaff probably came from shallow Blue limestone horizons as it did from neighboring mines, notably the Adelaide-Ward and Humboldt. Records on these mines are also scanty. The applicants, John and Fred Joyce, are probably more familiar with this area than any other local residents. They have worked the shallow deposits of the Ward and Humboldt in and around old stopes for a number of years and the present proposal is the result of their experience. They report a definite north-east ore trend in a Blue limestone ore shoot they worked at surface on the Ward which, at greater depth, ought to be present in the area they propose to explore from the Flagstaff shaft.

OWNERSHIP AND EXTENT

The two claims--the Flagstaff, survey number 348, and the Newton, survey number 2470, a total of 15.25 acres--are in secs. 19 and 30, T. 9 N., R. 79 W., California Mining District, Leadville, Colo. They are owned by Nellie L. Champion, N. A. Anderson, agent, 909 South Ellipse Way, Denver, Colo.

DESCRIPTION OF THE DEPOSITS

The Flagstaff shaft is located just west of the Adelaide fault, one of the major faults of the district. It is a normal fault with an approximate 500-foot displacement and a northwest strike and southwest dip. On the southwest side of the fault, the granite is about 1,000 feet below the surface and almost all of the ore horizons are present. However, on the eastern or footwall side, only the lower contacts up to the base of the Blue limestone are found. On this side of the fault, the granite is about 450 feet below the surface and the northerly dipping formations wedge out at the south.

Carbonate ore from the Flagstaff probably accounted for most of the production and the sulfide ores were less important. Although no records are available, the sulfide ore, no doubt, came from the lower levels or from the drifting reported along the Adelaide fault.

MINABLE ORE RESERVES

There are no known ore reserves. Because mine workings are inaccessible, it is impossible to make an appraisal of the ore which may be left in the property.

PRESENT STATUS

The property is developed by several shafts. Of these, only the East Flagstaff, reported to be 573 feet deep, is open and in usable condition with some repairs. The number of levels and extent of lateral workings is unknown except for a note in a report on Leadville shafts made for the American Smelting and Refining Company which gives the elevation of the second level as 10,620 feet or about 279 feet below the collar. The same report gives a shaft log with a

geological section accompanying this report. There are several gaps in the American Smelting and Refining Company's report, however, one of which is the failure to list a formation which could be identified as the Parting quartzite. The total section from surface to pre-Cambrian granite is approximately 709 feet in the report, allowing 136 feet of Cambrian quartzite below the shaft bottom. This is 264 feet less than inferred in the above-mentioned geological report.

PROJECT PROPOSALS, WITH COSTS

The applicants propose to erect a headframe and hoist room, install a gasoline hoist and compressor, rehabilitate the East Flagstaff shaft, and do 500 feet of lateral and/or raise work in 18 months. After consultation with the examining team, they realized they had allowed too much time for this amount of development but that 500 feet of development is probably a bare minimum to prove the property. Therefore, a time schedule of 15 months and a total of 900 feet of development have been set up.

The figures on preliminary work in the shaft are no more than a reasonable guess as it is not possible to obtain better information concerning its condition. The amount of development necessary is also a guess but the cost per foot and rate of advance of development are probably close when the labor setup as proposed is considered.

The applicants have a gasoline hoist, buckets, mine cars, ventilating fan and pipe, and small tools which they propose to furnish at a rental value of $100.00 per month. All other equipment must be purchased or rented.

Cost Estimate
(For Exhibit A)

The rental costs are based on local rental rates when the equipment can be obtained locally and on rates of Associated Equipment Distributors where it must be obtained elsewhere.

Fixtures and Improvements (Article 5 of contract)

Headframe, 20 feet high, materials	$250.00	
Sheave wheel, 24-inch	20.00	
Hoist house, 10 feet x 20 feet		
Lumber	90.00	
8 squares of roofing	46.00	
Hardware, windows	20.00	
Foundation materials, hoist and compressor	35.00	
Labor, erection of surface plant, 3 men at $250.00 per month each, 1 month	750.00	
Compensation insurance and taxes	75.00	$1,286.00

Rehabilitation and Repairs (Article 9 of contract)

Shaft repairs, materials for 50 feet of cribbing		
5,000 feet of 3-inch x 8-inch cribbing at $65.00 per thousand	$325.00	
Nails, wedges, lining boards, etc.	40.00	
500 feet of 2-inch pipe line for shaft at $.32 per foot	160.00	
Labor, shaft repairs, 3 men at $250.00 per month, 2 months	1,500.00	
Compensation insurance and taxes	150.00	2,175.00

Operating Equipment (Article 6 of contract)

750 feet, 5/8-inch (6 x 19) hoisting cable	$ 113.00	
Gasoline hoist, buckets, mine cars, and small tools at $100.00 per month, to be rented from applicants, 14 months	1,400.00	
1 drill gasoline compressor at $164.00 per month, 12 months	1,968.00	
1 mounted rock drill at $73.50 per month, 12 months	882.00	
Auxiliary drilling equipment, hoses	75.00	
Cross bar, or column, and clamp	45.00	
Pressure water tank	20.00	
Air receiver, secondhand	100.00	4,603.00

Exploration

900 feet of lateral openings and/or raises to be driven at the rate of 75 feet per month:

Labor, 3 men at $250.00 per month, 1 month	$750.00	
Compensation insurance and taxes	75.00	
Lubricating oil, gasoline, fuel for heating	115.00	
Powder, caps, and fuses	225.00	
Track, 75 feet of 12-pound	50.00	
Ties	8.00	
Pipe, 75 feet of 2-inch black	24.00	
Detachable rock bits and drill steel replacement	25.00	
Incidentals	11.00	
Assaying	20.00	
Total per month	$1,303.00	
Operations for 12 months		15,636.00
Total		$23,700.00

Labor and Supervision schedule for Article 8 of contract:

Operating personnel

1 - Hoistman
1 - Miner-supervisor
1 - Mucker, or helper
2 - Additional miners, if and when ore is mined

These men will be partners in the lease and will receive remuneration at the rate of $250.00 per month each, according to the application.

It is expected that top efficiency will be obtained with this class of workmen and they may excede the estimated 3 feet of development advance daily. However, at 3 feet per day, the overall cost exclusive of preliminary construction and repairs, is estimated at $15,636.00 for 900 feet, or $17.37 per foot. This is considerably less than it would be with hired labor at current rates.

CONCLUSIONS

The proposed development has a good chance of opening up lead-zinc ore deposits. The applicants are competent miners and have a good reputation in the community. Under this arrangement where all the work is to be done by the partners, the development will be done at a much lower cost than is usually the case.

RECOMMENDATIONS

It is recommended that a loan of $23,700.00 (Government participation $11,850.00) be approved. It is understood that the applicants will not start work until May 1952 if the loan is approved.

500
FILE COPY
SURNAME:

Moulds

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

MAY 1 1952

Mr. J. H. East, Jr.
Executive Officer, Region IV
DMEA Field Team
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMA 1191X
a partnership consisting
of John L.Joyce, Fred A.
Joyce, 419 E. 5th St.
Leadville, Colorado

Dear Mr. East:

We are returning, herewith, two copies of the subject contract transmitted by your office.

The contract has been registered as Idm-E293, and distributed except for the enclosed copies designated "Operator's Copy" and "Field Team's Copy" which are to be distributed as designated.

Sincerely yours,

D. E. Moulds (mof)

D. E. Moulds, Chief
Base Metals Division
Defense Minerals Exploration
Administration

Enclosures - 2

DEMoulds/hmj
5-1-52
CC to: Adm. Reading File
Docket File Copy
Region IV
Mr. Moulds

J.N.
5-1-52

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

224 New Customhouse
Denver 2, Colorado

REGISTERED MAIL

April 7, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 10 1952

Memorandum

To: C. O. Mittendorf, Acting Administrator

From: Executive Officer, Field Team, Region IV

Subject: Contract Docket DMA-1191X, John L. Joyce and Fred L. Joyce

Enclosed for a contract number are the original and five copies of a contract between the Government and a partnership consisting of John L. Joyce and Fred L. Joyce. All copies have been signed by the applicants and by the Regional Director, Region IV.

W. H. King
W. H. King for
J. H. East, Jr.
Executive Officer
Field Team, Region IV

Enclosures

RECEIVED
APR 17 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

OFFICE OF THE ADMINISTRATOR

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 21 1951

224 New Customhouse
Denver 2, Colorado

December 14, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1191X, Newton and Flagstaff Claims, (Lead-Zinc), California Mining District, Lake County, Colorado. Applicants - John and Fred Joyce, 419 East 5th Street, Leadville, Colorado

The application of the subject docket for government assistance in exploration work has been approved for the amount of $23,700.

The contract is being prepared in this office.

A copy of the final report will be forwarded with your copy of the contract.

Paul T. Allsman
Paul T. Allsman, Alternate

A. H. Koschmann
A. H. Koschmann

Copy of this memo. to Base Metals Div. - 2/13/52 - BL

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

224 New Customhouse
Denver 2, Colorado

December 14, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1191X, Newton and Flagstaff Claims, (Lead-Zinc), California Mining District, Lake County, Colorado. Applicants - John and Fred Joyce, 419 East 5th Street, Leadville, Colorado

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The contract is being prepared in this office.

A copy of the final report will be forwarded with your copy of the contract.

Paul T. Allsman, Alternate

A. H. Koschmann

McKnight
Billings
Brabb

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

SEP 7 1951

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team
Region IV
224 New Customhouse
Denver 2, Colorado

Dear Sir:

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

Docket No. 1191X

Commodity Lead

Applicant John and Fred Joyce, 419 East 5th Street, Leadville, Colorado

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

Very truly yours,

Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1191X

Commodity Lead

Total Amount $30,600

Govt. Participation 50%

1. Name and Address of Applicant John and Fred Joyce, 419 East 5th Street, Leadville, Colorado

2. Location of Property Newton and Flagstaff Claims at Leadville, Colorado

3. Mineral or metal Lead Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good Probably good, but needs checking

b) Poor

c) None

d) Don't know—needs field examination Yes

e) Is there an alternative and favorable project? Don't know
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes, lessee
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? Yes

Does the lease have sufficient time to run to cover a future productive period? Yes

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? _____

b) MF-202 Should be requested; form enclosed herewith

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies ~~Don't know~~
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Don't know

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes

Is a field check needed on this point? No

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? No

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Probably only in part.

If not, what part of it is? The 500 feet drifting north from foot of shaft, and preliminary work leading to this, should be acceptable under the program.

Is this part a worthwhile exploration project? Probably

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Don't know

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? ✓

b) If so, are sufficient data furnished? No If so, attach a draft.

c) Is a field check needed? Yes

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes; "surface plant", headframe Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Don't know

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? No

b) Is the schedule adequate for the work proposed? Probably

c) Is the schedule excessive for the work proposed? Don't know

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed?

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes; repair of shaft

b) Sufficient data? No

c) Reasonable? Don't know

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Probably

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? First application omitted most of questions, and did not warrant serious consideration by IIA; but when situation was explained to applicant, second application appears promising. However, break down of expenses is too general for preparing contract. Details can probably be worked out between field team and applicant with far less delay than through further correspondence. May be some question as to whether applicant can furnish his share with labor (of 3 men?) and rental, rental items not listed. Form MF-102, enclosed was filed by error instead of MF-202; we sent him the wrong forms.

Reviewed by: E. T. McKnight GS

Date 9-6-51

INT.-DUP. SEC., WASH., D.C. 99009

FILE COPY
SURNAME:
350

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

A.E.C.

McKnight
Billings
Bishoff
Thayer
Moore

SEP 7 1951

Re: DMA-1191X

Messrs. John and Fred Joyce
419 East 5th Street
Leadville, Colorado

Gentlemen:

Your application for an exploration loan to explore the Flagstaff and Newton Claims needs a further clarification of expense details before a contract can be written. We are referring the application to the Field, Mr. J. H. East, Jr., Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado, who should contact you shortly in order to get the additional information needed.

Very truly yours,

SIGNED
Tom Lyon, Director
Supply Division

JF 9-7

ETMcKnight:emp
G 9-6-51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Administrators r. file
DMA docket files

FILE COPY
SURNAME:

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

McKnight
Bullinger
O'Leary
(Form 7c)

July 26, 1951

Messrs. John and Fred Joyce
419 East 5th Street
Leadville, Colorado

In reply please
refer to: DMA-1191

Gentlemen:

Your application for an exploration loan of $1700 per month to explore the Flagstaff and Newton Claims has been reviewed by the Defense Minerals Administration.

I regret that we have not been able to approve your application on the basis of the scant information submitted. The contract made with the applicant must describe the work to be done under the contract, its cost as distributed over several items including labor, purchased equipment, rented equipment, rehabilitation and repair of facilities, etc. This information has to be obtained from the applicant's answers to the questions on the exploration form. Although you have signed the back side of this form, you have answered none of the questions on the back side which include the important questions concerned with writing a contract.

Your answer to question 9 also is an important one, which asks how much money you are prepared to invest in the proposed project, and whether it is sufficient to pay your half of the project cost as detailed in the answer to question 23. Your reply to question 9 is "None. This property is entirely in the clear". If this answer means that you cannot invest any money, or its equivalent in labor or equipment rental, the proposal will have to be denied as not meeting the requirements of the program.

In giving the estimated cost of the project, you state "$1700 per month". Although it is true that the Government contributions to the project are paid on a monthly basis, the project must be set up and approved in its entirety so that there is a specific objective to be attained at a contract cost. There must be a reasonable assurance from the applicant in his answer to question 9 that he has the means to carry his share of the approved project to completion, otherwise, the effort is wasted.

I am enclosing 5 copies of Form MF-103. Four copies need to be completed and returned to me. Questions on both sides of the form should be answered. The DMA number 1191 can be retained. It will also be necessary to submit 6 copies of the Landlord's Subordination Agreement, Form MF-102, 7 copies of which are enclosed. We have one copy of your

lease which will suffice for the present, although additional copies may have to be made later. I am also enclosing a copy of MO-5 explaining the regulations governing the exploration program, in case you may not have a copy of these regulations available.

If you will send us the information in a new application whereby we can judge your proposal, we will be glad to give it further consideration. The law under which this exploration aid is being granted has been extended a month and we have reason to believe that it will be further extended on a month-to-month basis until a longer range law has been enacted.

Very truly yours

T. P. Billings, Chief
Lead-Zinc Branch

Enclosures 13

ETMcKnight:emp
G 7-26-51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

FILE COPY
SURNAME:

Herres
McKnight (alt)
Moto

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

June 15, 1951

DMA-1191X
Flagstaff, Newton

Joyce

Messrs. John and Fred Joyce
419 East 5th Street
Leadville, Colorado

Gentlemen:

In reply to your letter of June 12 requesting information concerning your application for Government assistance under the exploration program of DMA, your application was received by the Lead-Zinc Branch on May 19 and is under consideration. However, several hundred applications were received about that same time all of which will be handled as promptly as possible.

I hope that we may be able to give you some word on your project before the end of the month.

Yours very truly,

Otto Herres

Otto Herres, Chief
Lead-Zinc Branch

OHERRES:ks

cc: Strobel
Mote
McKnight
Herres
Files

Dmc 1191

~~LANDON F. STROBEL~~
Herres

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 1 4 1951
LANDON F. STROBEL
Executive Secretary

Leadville, Colorado
June 12, 1951

United States Department of Interior
Defense Minerals Administration
Washington 25, D. C.

Subject DMA-1191X
Re: Exploration Loan
Flagstaff, Newton.

Dear Sirs:

Your letter of May 23, 1951 refers my application of May 10, 1951 to Mr. Otto Herres, Chief Lead-Zinc Branch on May 18, 1951.

I am ready to start to work awaiting a decision on my loan application. Since it is necessary to put up a surface plant and other surface work before the cold weather starts in September, I am anxious to get started.

Will you kindly inform me as soon as possible if my loan application has been approved.

Yours very truly

Fred Joyce

John and Fred Joyce
by Fred Joyce

FILE COPY
SURNAME:

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

May 23, 1951

Messers John and Fred Joyce
419 East 5th Street
Leadville, Colorado

Subject: DMA-1191X
Re: Exploration Loan
Flagstaff, Newton

My dear Messers Joyce:

Receipt is acknowledged of your application and attachments of May 10, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1191X and was referred to Mr. Otto Herres, Chief, Lead-Zinc Branch on May 18, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1191X

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:mab
cc: Strobel-2
Files
Herres
Lyon

DMA 1191

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

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. DMA 1191

Date received 8-29-51

Participation

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. AUG 29 9 28 AM '51

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

DMA-1191

Name and address of applicant

May 10, 1951

Date

FILL IN THIS BLOCK

Date of application: May 10, 1951

Estimated cost: $30,600.00

Mineral or metal: Lead

Percentage of Government participation: $15,300.00

Location of mine: Newton 2470, Flagstaff 348.
California Mining District
Lake County, Colorado

Date of filing MF-100:

DMA Docket Number, if available: DMA-1191

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)? For answers see sheets attached hereto.

*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*
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*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
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19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

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

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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.
    (*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.
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    (*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.

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.

John and Fred Joyce & Company
(Name of company)

By Fred A. Joyce
Manager
(Signature of authorized official)

August 13, 1951
(Date)

(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

ANSWERS TO QUESTIONS
Form M. F. 103

1. Applicant is a Partnership.
2. Partnership, Fred A. Joyce and John Joyce, 419 East 5th St. Leadville, Colorado
3. (Partnership)
4. Both partners have worked in the mines all their lives and are the third generation of miners in the Leadville mines.
5. We are the lessees of the property.
6. (Lessees)
7. Copy of lease attached hereto. This property clear of all indebtedness.
8. The mine is not in operation, but each of above partners have assets equivalent to $5,000.00 each.
9. Applicants are prepared to furnish $850.00 in labor and equipment rental. per mo.
10. The leased mining claims are known as the Newton, United States Survey No. 2470 and Flagstaff 348, California Mining District, Lake County, Colorado.
11. Now listed as the original surveys, Newton and Flagstaff.
12. These mining claims are located 2½ miles from the nearest mill and approximately 4 miles from the Smelter at Leadville (A. S. & R. Co.).
13. Surface water available at all times.
14. Gas hoist and gas compressor, approximately 20 gallons of gas per day.
15. The ore can be shipped by truck to either the Resurrection Mining Company mill, or, also, by truck to the American Smelting and Refining Company Smelter, Arkansas Valley Plant at Leadville, Colorado.
16. History. The Newton shaft has not been in operation for the past thirty years. During the time of operation a large body of low-grade ore (lead) was encountered, but at that time with the low prices of metals not much of the ore was shipped, and finally the mine shut down. This ore can now be shipped at a profit. We, also, wish to explore the property of both the Newton and Flagstaff, because we believe that the rich lead ores of the Adelaide Vein (adjoining mining claim) continues into these claims that we have leased. Emmons Report describes this property and the closely adjoining properties, Gallagher, Mikado Shaft (Venus) property. These mines were big producers of both lead and zinc during World War I., and at present market values could again be big producers. The Adelaide and Newton were principally lead mines. The only report available is Emmons Report, Professional Paper 148, U.S. G. S.
17. Mine is not now in production.
18. The ores at time mine was in operation was lead carbonates. We intend to work these carbonates and follow the ores down into the richer lead sulphide horizon which will now be possible due to the Leadville Drainage tunnel.
19. We hope that your action on this loan will be soon, because of the long winters and the fact that there is not much time left to erect the surface plant and head-frame. This cannot be done in the winter time except at an increased cost.
20. Exploration will be for lead ore, carbonate (oxide) and sulphides.
21. The proposed work will consist of the following: construct surface plant, head-frame for shaft, repair shaft (shaft in bad condition), clean and retimber old level into ore body, drift north from shaft 500 feet from bottom of shaft to encounter lead ores in the sulphide horizon, and this drift should show whether the Adelaide vein continues into the Newton and Flagstaff.(Adelaide Mine rich producer of lead ores)

21. (cont.) We sincerely believe that all the work can be completed in 18 months.

22. The geology of these claims have been set forth by Emmons in Prof-Paper 148, the possibility of ores is proven by the fact that ores of excellent grade has been shipped from the adjoining properties, and low-grade ore has been shipped from this property. No maps available.

23. Statement of expenses:
3 men @ $250.00 per month until shaft is repaired
2 men additionial @ $250.00 per month for prospecting and driving drifts.
1 supervisor who will, also, be one of the miners listed above.
Cost of construction and installation of machinery $3,000.00.
Cost of rental of equipment, hoist and machinery and compressor $150.00 per month
Mine timbers, shaft timbers, nails, powder, fuse, caps, rails, pipe, carbide and etc. approximately $500.00 per month
No charge for water needed in operation.

24. The operations will start immediately after the loan has been granted. The cost will be approximately $1,700.00 per month, a total of $30,600.00 for the overall period of 18 months; however, we believe we will be shipping ore within eight months.

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI

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. DMA 1191X

Date received 8-29-51

Participation

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

DMA-1191

Name and address of applicant

May 10, 1951

Date

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
AUG 29 9 28 AM '51

May 10, 1951

FILL IN THIS BLOCK

$30,600.00

Date of application

Lead

Estimated cost $15,300.00

Mineral or metal

Newton 2470, Flagstaff 248.

Percentage of Government participation

Location of mine

California Mining District
Lake County, Colorado

DMA-1191

Date of filing MF-100

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.
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16—64067-1

THE PROPERTY

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State amount of power to be used, rate per hour or other cost, and source.

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

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
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THE REQUIREMENTS AND COSTS

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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.

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.

John and Fred Joyce & Company
(Name of company)

By Fred A. Joyce
(Signature of authorized official)

August 13, 1961
(Date)

Manager
(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

ANSWERS TO QUESTIONS
Form M. P. 103

1. Applicant is a Partnership.
2. Partnership, Fred A. Joyce and John Joyce, 419 East 5th St. Leadville, Colorado
3. (Partnership)
4. Both partners have worked in the mines all their lives and are the third generation of miners in the Leadville mines.
5. We are the lessees of the property.
6. (Lessees)
7. Copy of lease attached hereto. This property clear of all indebtedness.
8. The mine is not in operation, but each of above partners have assets equivelent to $5,000.00 each.
9. Applicants are prepared to furnish $850.00 in labor and equipment rental./mo.
10. The leased mining claims are known as the Newton, United States Survey No. 2470 and Flagstaff 348, California Mining District, Lake County, Colorado.
11. Now listed as the original surveys, Newton and Flagstaff.
12. These mining claims are located 2½ miles from the nearest mill and approximately 4 miles from the Smelter at Leadville (A. S. & R. Co.).
13. Surface water available at all times.
14. Gas hoist and gas compressor, approximately 20 gallons of gas per day.
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18. The ores at time mine was in operation was lead carbonates. We intend to work these carbonates and follow the ores down into the richer lead sulphide horizon which will now be possible due to the Leadville Drainage tunnel.
19. We hope that your action on this lease will be soon, because of the long winters and the fact that there is not much time left to erect the surface plant and head-frame. This cannot be done in the winter time except at an increased cost.
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21. (cont.) We sincerely believe that all the work can be completed in 18 months.

22. The geology of these claims have been set forth by Parons in Prof-Paper 148, the possibility of ores is proven by the fact that ores of excellent grade has been shipped from the adjoining properties, and low-grade ore has been shipped from this property. No maps available.

23. Statement of expenses:
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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. DMA 1191

Date received 8-29-51

Participation

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C. AUG 29 9 27 AM '51

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

DMA-1191

Name and address of applicant

Date May 10, 1951

FILL IN THIS BLOCK

Date of application May 10, 1951

Estimated cost $30,600.00

Mineral or metal Lead

Percentage of Government participation $15,300.00

Location of mine Newton 2470, Flagstaff 348.

California Mining District
Lake County, Colorado

Date of filing MF-100

DMA Docket Number, if available DMA-1191

INSTRUCTIONS

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John and Fred Joyce & Company
(Name of company)

By Fred A Joyce
(Signature of authorized official)

August 13, 1951
(Date)

Manager
(Title)

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*Same as footnote on page 1.

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

ANSWERS TO QUESTIONS
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14. Gas hoist and gas compressor, approximately 20 gallons of gas per day.
15. The ore can be shipped by truck to either the Resurrection Mining Company mill, or, also, by truck to the American Smelting and Refining Company Smelter, Arkansas Valley Plant at Leadville, Colorado.
16. History. The Newton shaft has not been in operation for the past thirty years. During the time of operation a large body of low-grade ore (lead) was encountered, but at that time with the low prices of metals not much of the ore was shipped, and finally the mine shut down. This ore can now be shipped at a profit. We, also, wish to explore the property of both the Newton and Flagstaff, because we believe that the rich lead ores of the Adelaide Vein (adjoining mining claim) continues into these claims that we have leased. Emmons Report describes this property and the closely adjoining properties, Gallagher, Mikado Shaft (Venus) property. These mines were big producers of both lead and zinc during World War I., and at present market values could again be big producers. The Adelaide and Newton were principally lead mines. The only report available is Emmons Report, Professional Paper 148, U.S. G. S.
17. Mine is not now in production.
18. The ores at time mine was in operation was lead carbonates. We intend to work these carbonates and follow the ores down into the richer lead sulphide horizon which will now be possible due to the Leadville Drainage tunnel.
19. We hope that your action on this loan will be soon, because of the long winters and the fact that there is not much time left to erect the surface plant and head-frame. This cannot be done in the winter time except at an increased cost.
20. Exploration will be for lead ore, carbonate (oxide) and sulphides.
21. The proposed work will consist of the following: construct surface plant, head-frame for shaft, repair shaft (shaft in bad condition), clean and retimber old level into ore body, drift north from shaft 500 feet from bottom of shaft to encounter lead ores in the sulphide horizon, and this drift should show whether the Adelaide vein continues into the Newton and Flagstaff.(Adelaide Mine rich producer of lead ores)

21. (cont.) We sincerely believe that all the work can be completed in 18 months.

22. The geology of these claims have been set forth by Emmons in Prof-Paper 148, the possibility of ores is proven by the fact that ores of excellent grade has been shipped from the adjoining properties, and low-grade ore has been shipped from this property. No maps available.

23. Statement of expenses:
3 men @ $250.00 per month until shaft is repaired
2 men additionial @ $250.00 per month for prospecting and driving drifts.
1 supervisor who will, also, be one of the miners listed above.
Cost of construction and installation of machinery $3,000.00.
Cost of rental of equipment, hoist and machinery and compressor $150.00 per month
Mine timbers, shaft timbers, nails, powder, fuse, caps, rails, pipe, carbide and etc. approximately $500.00 per month
No charge for water needed in operation.

24. The operations will start immediately after the loan has been granted. The cost will be approximately $1,700.00 per month, a total of $30,600.00 for the overall period of 18 months; however, we believe we will be shipping ore within eight months.

1. Materials produced:

(a) Lead

(b) Silver, Gold

2. Name of mine, type etc.
MARGRAVE, Car. No. 345
BURTON, Car. No. 3470
(a) 500 ft. linear shafts.
(b) Map shows several drifts.
(c) Some tunnels and adits but whether or not they
(d) are open is unknown without exploration.
Tunnels not flooded. No pumping problems.
Size or productive capacity is unknown.

5. (a) 3 miles to A. S. & R. Smelter
(b) California Mining District
(c) [illegible], Sur. No. 340, Sections 19 and 30
Township 9, Range 79 West. (10.270 acres)
[illegible], Sur. No. 2470, Sections 19 and 30
Township 9, Range 79 West (4.950 acres)
(d) Lake County, Colorado.

[illegible]

4. (a) Not now in operation.
(b) To operate as lessee.

5. One early-day producer.
Operation will begin as soon as possible, or as soon as application is approved.

6. Experience of Operators:

Effective miners (30 years experience)

7. History:

(a) These properties were good early-day producers of lead ore. The operation was suspended when operators became ill and were never resumed. Nothing further is known.

(b) Adjoining properties, the Belgium (Belgian) and Adelaide were large producers of lead ore.

(c) The properties (the Clayton and Newton) have not been worked for fifty years and reports, assays etc. are not available.

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. dma 1191 X

Date received 5-17-51

Participation

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

Name and address of applicant

Date May 10, 1951

FILL IN THIS BLOCK

Date of application May 10, 1951

Estimated cost $1700.00 per month

Mineral or metal Lead

Percentage of Government participation 50%

Location of mine Leadville, Colo. (California Mining District, Adelaide Park)

Date of filing MF-100 May 10, 1951

DMA Docket Number, if available dma 1191 X

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? Partnership

*2. If a partnership, state names and addresses of partners. John and Fred Joyce, Leadville, Colo.

*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. Lifetime miners and leasers.

*5. Are you the owner or the lessee of the property? Lessee.

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)? None. This property is entirely in the clear.

*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.
    (*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.

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.

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.

John Joyce
Fred Joyce
(Name of company)

By Margaret M. Cavanaugh
(Signature of authorized official)

May 10 1951
(Date)

Notary Public
(Title)
My Commission Expires Aug. 8, 1951

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

Form MF-100
(March 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. dmc 1191X

Date received 5-17-51

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

Name and address of applicant

Date May 10, 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) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	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	$	$	$		
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.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

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.

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.

(*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)					
Indicated (probable)					

(*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:

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

14. Water Supply:

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

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

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

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.

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

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.

John Joyce
Fred Joyce
(Name of company)

May 10 - 1951
(Date)

By Margaret K. Cavanaugh
(Signature of authorized official)

Notary Public
(Title)

My Commission expires Aug 8, 1951.

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. dma 1191 X

Date received 5-17-51

Participation

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

Name and address of applicant

Date May 10, 1951

FILL IN THIS BLOCK

Date of application May 10, 1951

Estimated cost $1700.00 per month

Mineral or metal Lead

Percentage of Government participation 50%

Location of mine Leadville, Colo.(California Mining District, Adelaide Park)

Date of filing MF-100 May 10, 1951

DMA Docket Number, if available dma 1191 X

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? Partnership

*2. If a partnership, state names and addresses of partners. John and Fred Joyce, Leadville, Colorado

*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. Lifetime miners and leasers.

*5. Are you the owner or the lessee of the property? Lessee

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. None. This property is entirely in the clear.

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.
    (*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.

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.

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.

John Jayce
Fred Jayce (Name of company)

By Margaret K. Cavanaugh
(Signature of authorized official)

May 10 - 1951
(Date)

Notary Public
(Title)
My Commission expires Aug 8 1951

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

Form MF-100
(March 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. dma 1191 X

Date received 5-17-51

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

Name and address of applicant

Date May 10, 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) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) 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		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	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	$	$	$		
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.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

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.

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.

(*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)					
Indicated (probable)					

(*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:

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

14. Water Supply:

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

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

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

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.

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

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.

John Joyce
Fred Joyce
(Name of company)

By Margaret M. Cavanaugh
(Signature of authorized official)

May 10 – 1951
(Date)

Notary Public
(Title)
My Commission expires Aug. 8, 1951

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-102
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1028.

MF-102 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR GOVERNMENT LOAN
Not to Exceed $50,000
Under the Defense Production Act of 1950

Not to be filled in by applicant

Docket No. DMA 1191

Date received 8-29-51

Name and address of applicant

[illegible]

Date of application

Amount of loan requested

Terms of loan requested

If you have already filed MF-100, give date filed [illegible], type of assistance requested [illegible], DMA docket number (if available) [illegible]

INSTRUCTIONS

Application should be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. Submit four copies of this application and four copies of General Technical Data Form MF-100. If the latter form has been filed previously with an application for Government assistance, it is not necessary to file it again. However, the applicant should indicate in space provided above the type of assistance previously applied for (loans, procurement contract, etc.) and DMA docket number, if available.

Name and address of applicant should be stamped or typed on each sheet of the application 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 in the application indicate where answered. It is not necessary to answer it again.

AUG 29 1951
DEFENSE MINERALS ADMINISTRATION
WASHINGTON

1. PURPOSE OF LOAN:

Give a brief general statement of the purpose of the loan requested, including in the table below estimated amounts for such major purposes as land acquisition, building construction, purchase of plant, purchase of equipment, working capital, repayment of debt, etc. Statement should make clear whether funds will be used for expansion of capacity, development of technological processes, or production of essential materials.

General Statement. [illegible]

NATURE OF EXPENDITURE	AMOUNT
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
TOTAL AMOUNT APPLIED FOR	[illegible]

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

2. PROPOSED METHOD FOR REPAYMENT OF LOAN:
   State how loan will be repaid and proposed schedule of repayment. [illegible]
3. CLAIMS AGAINST GOVERNMENT:
   Explain in detail, stating amount of each claim filed and amount recovered, if any. If no such claim has been filed, so state. None.
4. EMPLOYMENT:
   Will loan result in an increase in the number of employees? If so, how many? [illegible]
5. INSURANCE:
   State kind and amount of all insurance carried in favor of applicant. (Fire, public liability, etc.) [illegible]

16—64195-1

6. RECENT EFFORTS TO OBTAIN CREDIT:

State efforts to obtain credit, within 60 days preceding date of application, from banks, RFC, or other sources. If refused, give reasons and submit copy of refusal. If a bank will participate in the loan, state name of bank and amount of participation.

7. NECESSITY CERTIFICATES:

List any applications made for Necessity Certificates for tax amortization (under section 124A of the Internal Revenue Code) giving date of application, Government file number, estimated total cost of facilities on each application, and action taken by Government.

8. OWNERSHIP OF PROPERTY:

Show how property is held. Attach copy of deeds, leases, or other documents conveying to applicant the present interest of the applicant in the mining property.

9. LEGAL DESCRIPTION OF PROPERTY:

(*a*) Give name and mineral survey number of patented claims, if any, and a map.
(*b*) Give names, dates of location, and place, date book, and page record of all unpatented locations, and a map.
(*c*) If property is other than mining claims, give description by lot numbers, metes and bounds, or according to accepted legal practice.
(*d*) If mineral rights are separated from surface rights, or if any conflicting or overlapping rights exist in the property give full explanation.

10. GEOLOGY AND TOPOGRAPHY:

Submit all available information and maps.

11. EXISTING DEVELOPMENT:

(*a*) Furnish all pertinent information with regard to the ore body or mineral deposit. If maps and sections of the mine are not available, pencil sketches are acceptable. However, such sketches should, if possible, be drawn to scale, or if not, dimensions should be shown. Give all available assays of samples, stating clearly how samples were taken, giving width and location of each sample. Show the location, value, and width of each sample on maps submitted.
(*b*) Submit certificates, when available, giving analysis of each sample and number each sample to correspond with sample numbers on the maps submitted.
(*c*) State type of mine, whether tunnel or shaft, and show in detail the existing workings. State distance along dip of vein between levels and to surface. Indicate condition of workings, noting on map caved areas and those areas which it is proposed to make accessible.

12. IF EXPLORATION OR DEVELOPMENT OF MINE IS ANTICIPATED:

(*a*) State clearly and in detail the proposed work.
(*b*) Sketch the proposed work on any maps submitted.
(*c*) Submit cost estimates.

13. MINING:

(*a*) Describe mining methods briefly.
(*b*) Detail all mining costs including power, water, transportation, etc.
(*c*) State time required to reach production.

14. MILLING:

(*a*) State how and where ore is to be milled.
(*b*) State capacity, percentage of extraction, ratio of concentration, and submit flow sheet, if ore is to be milled by applicant.
(*c*) Detail the milling costs and transportation costs, if any.
(*d*) Explain tailing disposal.
(*e*) Explain source of water and whether it is suitable.
(*f*) Detail the marketing of concentrates and submit actual or proposed smelter contracts, if available.

15. Submit any available informative data not covered in the preceding paragraphs.

16. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF A CORPORATION:

Name and Address	Official Title (If officer is also director, indicate by "D")	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year	Estimated Net Worth Outside of Applicant	Number of Shares Held in Applicant		Life Insurance Carried for Benefit of Applicant	
				Common	Preferred	Amount	Net Cash Surrender Value After Loans
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Total		x x x x			x x x x	x x x x

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	$	$	$		
Preferred stock	$	$	$		

17. COMPENSATION SCHEDULE:

Instructions: The schedule shall show the amount of compensation being paid to all employees of applicant receiving compensation at a rate in excess of $5,000 per annum computed on a full-time basis. Any compensation in excess of this amount must receive Government approval. [illegible]

18. COLLATERAL OFFERED AS SECURITY FOR LOAN:

Brief Description	Date Acquired	Cost to Applicant	Present Net Book Value	Appraised	State by Whom Appraised and Date
Real estate (describe):	[illegible]	$	$	$	
Buildings (describe):	[illegible]				
Machinery, equipment, and other chattels exclusive of office furniture and fixtures (describe):	[illegible]				

Future Production Description	Date Expected To Reach Full Production	Gross Value	Net Value
[illegible]	[illegible]	[illegible]	

19. CURRENT FINANCIAL STATEMENT:

ASSETS		LIABILITIES	
Current:		Current:	
1. Cash [illegible]	$	1. Notes payable [illegible]	$
2. Notes receivable		2. Accounts payable	
3. Accounts receivable		3. Other	
4. Inventories		4. Accrued (interest, taxes, rent, etc.)	
Total		Total	
Fixed and Other:		Fixed and Other:	
5. Plant — Lands		5. Mortgage debt	
Plant — Buildings		6. Contracts, leases, royalty	
Plant — Ores		7. Other (describe)	
6. Machinery		Total	
7. Equipment, furniture, etc			
Total		10. Contingent (describe)	

20. CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES:

For years ended _____
(Insert date of end of fiscal year)

(*000.00 omitted*)

	(Figures for 3 Preceding Years)			Current Year as of Date of Financial Statement
	19____	19____	19____	
1. Net sales of ores or concentrates				
2. Cost of production				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal income and excess profits taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				

NOTE.—If applicant is incorporated an analysis of surplus should be given in detail for each of the years shown in the above tabulation.

*To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.
NOTE.—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

21. NOTES PAYABLE, MORTGAGE DEBT, AND LIENS:
List notes payable, giving maturity dates, amounts, character of collateral and names of guarantor(s) and/or endorser(s). Give names and addresses of holders of notes.
List names and addresses of holders of mortgages, maturity dates, interest rates, amounts paid and amounts unpaid.
List names and addresses of holders of liens against production, quantity involved, amounts of principal and interest due and dates of repayment.

22. AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN:
No fees or commission shall be paid by applicant for the purpose of procuring a loan. Reasonable compensation may be made for proper services actually rendered to applicant in preparing this application. If such services have been rendered, state kind of services and charges for same. Applicant agrees that all such compensation intended to be paid from the proceeds of the loan, if granted, shall be subject to approval by the Government.

Fred A Joyce
(Applicant)

23. The applicant hereby certifies that the statements made in the foregoing application and all exhibits and documents submitted in connection therewith are true and correct statements to the best of applicant's information and belief and are submitted as a basis for credit.

Dated _____, 19____

Witness: Emmett Dunn

(For individual applicants)
Fred A Joyce
(Signature)

Witness:

(For partnership applicants)

_____ _____
(Full name of firm)

By _____, a general partner
(Signature)

(For corporate applicants)

[CORPORATE SEAL] _____
(Full corporate name of applicant)

Attest. By _____ _____
(Signature) (Title)

_____ _____
(Signature) (Title)

The United States Criminal Code, 18 U. S. C., Sec. 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.

16—64195-1 U. S. GOVERNMENT PRINTING OFFICE

Form MF-102
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1028.

MF-102 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR GOVERNMENT LOAN
Not to Exceed $50,000
Under the Defense Production Act of 1950

Not to be filled in by applicant
Docket No. DMA 1191
Date received 8-29-51

Name and address of applicant

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

DMA 1191

Date of application

Amount of loan requested

Terms of loan requested

If you have already filed MF-100, give date filed May 10, 1951, type of assistance requested Prospector's Loan 50%, DMA docket number (if available) D.M.A. 1191

INSTRUCTIONS

Application should be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. Submit four copies of this application and four copies of General Technical Data Form MF-100. If the latter form has been filed previously with an application for Government assistance, it is not necessary to file it again. However, the applicant should indicate in space provided above the type of assistance previously applied for (loans, procurement contract, etc.) and DMA docket number, if available.

Name and address of applicant should be stamped or typed on each sheet of the application 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. YOU CANNOT ANSWER A QUESTION "NO STATE". If a question is answered elsewhere in the application, indicate where answered. It is not necessary to answer again.

RECEIVED AUG 29 1951 DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.

1. PURPOSE OF LOAN:

Give a brief general statement of the purpose of the loan requested, including in the table below estimated amounts for such major purposes as land acquisition, building construction, purchase of plant, purchase of equipment, working capital, repayment of debt, etc. Statement should make clear whether funds will be used for expansion of capacity, development of technological processes, or production of essential materials.

General Statement. The purpose of the loan requested is to open up the Newton and Flagstaff Mining Claims, California Mining District, Lake County, Colorado to develop and prospect for low-grade lead ore bodies. The loan is necessary to erect a surface plant, repair shaft and drive the necessary prospects underground.

NATURE OF EXPENDITURE	AMOUNT
Prospectors Loan:	
Cost of construction and installation of machinery (Tot.)	$3,000.00
3 men @ $250.00 per month	750.00
Cost of rental of equipment, hoist, compressor and rock drills per mo.	150.00
~~Powder, fuse, carbide, rails, caps, pipe and etc. per. mo.~~	~~500.00~~
TOTAL AMOUNT APPLIED FOR	$30,600.00

~~Total per month $1,700.00~~

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

2. PROPOSED METHOD FOR REPAYMENT OF LOAN:
State how loan will be repaid and proposed schedule of repayment. 1% royalty of ores shipped

3. CLAIMS AGAINST GOVERNMENT:
Explain in detail, stating amount of each claim filed and amount recovered, if any. If no such claim has been filed, so state.
None.

4. EMPLOYMENT:
Will loan result in an increase in the number of employees? If so, how many? No three men until ore is discovered.

5. INSURANCE:
State kind and amount of all insurance carried in favor of applicant. (Fire, public liability, etc.) 16—64195-1
Fire, liability and State of Colorado Workmen's Compensation. Ins.

6. RECENT EFFORTS TO OBTAIN CREDIT: We have not made any other effort for credit.
State efforts to obtain credit, within 60 days preceding date of application, from banks, RFC, or other sources. If refused, give reasons and submit copy of refusal. If a bank will participate in the loan, state name of bank and amount of participation.

7. NECESSITY CERTIFICATES:
List any applications made for Necessity Certificates for tax amortization (under section 124A of the Internal Revenue Code) giving date of application, Government file number, estimated total cost of facilities on each application, and action taken by Government. None

8. OWNERSHIP OF PROPERTY:
Show how property is held. Attach copy of deeds, leases, or other documents conveying to applicant the present interest of the applicant in the mining property. Property held by lease. copy of lease mailed.

9. LEGAL DESCRIPTION OF PROPERTY:
(a) Give name and mineral survey number of patented claims, if any, and a map.
(b) Give names, dates of location, and place, date book, and page record of all unpatented locations, and a map.
(c) If property is other than mining claims, give description by lot numbers, metes and bounds, or according to accepted legal practice. Mineral and surface not severed.
(d) If mineral rights are separated from surface rights, or if any conflicting or overlapping rights exist in the property give full explanation. Newton #2470 and Flagstaff #348 (U.S.Pat.Survey)

10. GEOLOGY AND TOPOGRAPHY:
Submit all available information and maps. Application for copies of maps with local Engineer now being made. will be sent you.

11. EXISTING DEVELOPMENT:
(a) Furnish all pertinent information with regard to the ore body or mineral deposit. If maps and sections of the mine are not available, pencil sketches are acceptable. However, such sketches should, if possible, be drawn to scale, or if not, dimensions should be shown. Give all available assays of samples, stating clearly how samples were taken, giving width and location of each sample. Show the location, value, and width of each sample on maps submitted.
(b) Submit certificates, when available, giving analysis of each sample and number each sample to correspond with sample numbers on the maps submitted.
(c) State type of mine, whether tunnel or shaft, and show in detail the existing workings. State distance along dip of vein between levels and to surface. Indicate condition of workings, noting on map caved areas and those areas which it is proposed to make accessible. Shaft and drift into old body of low-grade ore.

12. IF EXPLORATION OR DEVELOPMENT OF MINE IS ANTICIPATED:
(a) State clearly and in detail the proposed work. Repair shaft, retimber old drifts and drive new drifts to prospect for continuation of Adelaide vein.
(b) Sketch the proposed work on any maps submitted.
(c) Submit cost estimates.

13. MINING:
(a) Describe mining methods briefly. Shaft, tunnel and drifts (raises)
(b) Detail all mining costs including power, water, transportation, etc. $1,700.00 per month
(c) State time required to reach production. 18 mOnths.

14. MILLING:
(a) State how and where ore is to be milled. None
(b) State capacity, percentage of extraction, ratio of concentration, and submit flow sheet, if ore is to be milled by applicant.
(c) Detail the milling costs and transportation costs, if any.
(d) Explain tailing disposal.
(e) Explain source of water and whether it is suitable.
(f) Detail the marketing of concentrates and submit actual or proposed smelter contracts, if available.

15. Submit any available informative data not covered in the preceding paragraphs.

16. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF 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 Applicant (d)	Number of Shares Held in Applicant: Common (e)	Number of Shares Held in Applicant: 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)
John Joyce	50%						
Fred Joyce	50%						
(Above partners will work or contribute in labor as part of their share of loan)							
	Total		x x x x			x x x x	x x x x

16—64195-1

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 None	$	$	$		
Preferred stock None	$	$	$		

17. COMPENSATION SCHEDULE:

Instructions: The schedule shall show the amount of compensation being paid to all employees of applicant receiving compensation at a rate in excess of $5,000 per annum computed on a full-time basis. Any compensation in excess of this amount must receive Government approval. Only working partners in this operation will receive compensation at rate of $250.00 per mo.

18. COLLATERAL OFFERED AS SECURITY FOR LOAN:

Brief Description	Date Acquired	Cost to Applicant	Present Net Book Value	Appraised	State by Whom Appraised and Date
Real estate (describe):	Ten year basis on discovery of ore.	$	$	$	
Buildings (describe):	All buildings erected after receiving loan.				
Machinery, equipment, and other chattels exclusive of office furniture and fixtures (describe):	Machinery installed at mine will be rented equipment and not listed as collateral.				

Future Production Description	Date Expected To Reach Full Production	Gross Value	Net Value
	18 months	not known, ore will have to be discovered and mined before value can be determined.	

19. CURRENT FINANCIAL STATEMENT:

Assets		Liabilities	
Current:		**Current:**	
1. Cash Operation None	$	1. Notes payable Operation None.	$
2. Notes receivable		2. Accounts payable	
3. Accounts receivable		3. Other	
4. Inventories		4. Accrued (interest, taxes, rent, etc.)	
Total		Total	
Fixed and Other:		**Fixed and Other:**	
5. Plant — Lands		5. Mortgage debt	
5. Plant — Buildings		6. Contracts, leases, royalty	
5. Plant — Ores		7. Other (describe)	
6. Machinery		Total	
7. Equipment, furniture, etc.			
Total		10. Contingent (describe)	

20. CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES:

For years ended None Operation to start with loan
(Insert date of end of fiscal year)

(*000.00 omitted*)

	(Figures for 3 Preceding Years)			Current Year as of Date of Financial Statement
	19____	19____	19____	
1. Net sales of ores or concentrates				
2. Cost of production				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal income and excess profits taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				

NOTE.—If applicant is incorporated an analysis of surplus should be given in detail for each of the years shown in the above tabulation.

*To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.

NOTE.—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

21. NOTES PAYABLE, MORTGAGE DEBT, AND LIENS: None

List notes payable, giving maturity dates, amounts, character of collateral and names of guarantor(s) and/or endorser(s). Give names and addresses of holders of notes.

List names and addresses of holders of mortgages, maturity dates, interest rates, amounts paid and amounts unpaid.

List names and addresses of holders of liens against production, quantity involved, amounts of principal and interest due and dates of repayment.

22. AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN:

No fees or commission shall be paid by applicant for the purpose of procuring a loan. Reasonable compensation may be made for proper services actually rendered to applicant in preparing this application. If such services have been rendered, state kind of services and charges for same. Applicant agrees that all such compensation intended to be paid from the proceeds of the loan, if granted, shall be subject to approval by the Government.

No cost, prepared personally. Fred A Joyce
(Applicant)

23. The applicant hereby certifies that the statements made in the foregoing application and all exhibits and documents submitted in connection therewith are true and correct statements to the best of applicant's information and belief and are submitted as a basis for credit.

Dated August 24, 1951

Witness: Emmett Dunn

(For individual applicants)

Fred A Joyce
(Signature)

Witness:

(For partnership applicants)

John and Fred Joyce
(Full name of firm)

By _____, a general partner
(Signature)

(For corporate applicants)

[CORPORATE SEAL]

(Full corporate name of applicant)

Attest.

By _____ _____
(Signature) (Title)

_____ _____
(Signature) (Title)

The United States Criminal Code, 18 U. S. C., Sec. 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.

16—64195-1 U. S. GOVERNMENT PRINTING OFFICE

Form MF-102
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1028.

MF-102 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR GOVERNMENT LOAN
Not to Exceed $50,000
Under the Defense Production Act of 1950

Not to be filled in by applicant

Docket No. DMA 1191

Date received 8-29-57

Name and address of applicant

[illegible]

DMA 1191

Date of application

Amount of loan requested

Terms of loan requested

If you have already filed MF-100, give date filed [illegible], type of assistance requested [illegible], DMA docket number (if available) [illegible]

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
Aug 29 [illegible]

INSTRUCTIONS

Application should be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. Submit four copies of this application and four copies of General Technical Data Form MF-100. If the latter form has been filed previously with an application for Government assistance, it is not necessary to file it again. However, the applicant should indicate in space provided above the type of assistance previously applied for (loans, procurement contract, etc.) and DMA docket number, if available.

Name and address of applicant should be stamped or typed on each sheet of the application 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 in the application indicate where answered. It is not necessary to answer it again.

1. PURPOSE OF LOAN:

Give a brief general statement of the purpose of the loan requested, including in the table below estimated amounts for such major purposes as land acquisition, building construction, purchase of plant, purchase of equipment, working capital, repayment of debt, etc. Statement should make clear whether funds will be used for expansion of capacity, development of technological processes, or production of essential materials.

General Statement. [illegible]

NATURE OF EXPENDITURE	AMOUNT
[illegible]	[illegible]
TOTAL AMOUNT APPLIED FOR	[illegible]

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

2. PROPOSED METHOD FOR REPAYMENT OF LOAN:
State how loan will be repaid and proposed schedule of repayment. [illegible]

3. CLAIMS AGAINST GOVERNMENT:
Explain in detail, stating amount of each claim filed and amount recovered, if any. If no such claim has been filed, so state. [illegible]

4. EMPLOYMENT:
Will loan result in an increase in the number of employees? If so, how many? [illegible]

5. INSURANCE:
State kind and amount of all insurance carried in favor of applicant. (Fire, public liability, etc.) [illegible]

16—64195-1

6. RECENT EFFORTS TO OBTAIN CREDIT:

State efforts to obtain credit, within 60 days preceding date of application, from banks, RFC, or other sources. If refused, give reasons and submit copy of refusal. If a bank will participate in the loan, state name of bank and amount of participation.

7. NECESSITY CERTIFICATES:

List any applications made for Necessity Certificates for tax amortization (under section 124A of the Internal Revenue Code) giving date of application, Government file number, estimated total cost of facilities on each application, and action taken by Government.

8. OWNERSHIP OF PROPERTY:

Show how property is held. Attach copy of deeds, leases, or other documents conveying to applicant the present interest of the applicant in the mining property.

9. LEGAL DESCRIPTION OF PROPERTY:

(*a*) Give name and mineral survey number of patented claims, if any, and a map.
(*b*) Give names, dates of location, and place, date book, and page record of all unpatented locations, and a map.
(*c*) If property is other than mining claims, give description by lot numbers, metes and bounds, or according to accepted legal practice.
(*d*) If mineral rights are separated from surface rights, or if any conflicting or overlapping rights exist in the property give full explanation.

10. GEOLOGY AND TOPOGRAPHY:

Submit all available information and maps.

11. EXISTING DEVELOPMENT:

(*a*) Furnish all pertinent information with regard to the ore body or mineral deposit. If maps and sections of the mine are not available, pencil sketches are acceptable. However, such sketches should, if possible, be drawn to scale, or if not, dimensions should be shown. Give all available assays of samples, stating clearly how samples were taken, giving width and location of each sample. Show the location, value, and width of each sample on maps submitted.
(*b*) Submit certificates, when available, giving analysis of each sample and number each sample to correspond with sample numbers on the maps submitted.
(*c*) State type of mine, whether tunnel or shaft, and show in detail the existing workings. State distance along dip of vein between levels and to surface. Indicate condition of workings, noting on map caved areas and those areas which it is proposed to make accessible.

12. IF EXPLORATION OR DEVELOPMENT OF MINE IS ANTICIPATED:

(*a*) State clearly and in detail the proposed work.
(*b*) Sketch the proposed work on any maps submitted.
(*c*) Submit cost estimates.

13. MINING:

(*a*) Describe mining methods briefly.
(*b*) Detail all mining costs including power, water, transportation, etc.
(*c*) State time required to reach production.

14. MILLING:

(*a*) State how and where ore is to be milled.
(*b*) State capacity, percentage of extraction, ratio of concentration, and submit flow sheet, if ore is to be milled by applicant.
(*c*) Detail the milling costs and transportation costs, if any.
(*d*) Explain tailing disposal.
(*e*) Explain source of water and whether it is suitable.
(*f*) Detail the marketing of concentrates and submit actual or proposed smelter contracts, if available.

15. Submit any available informative data not covered in the preceding paragraphs.

16. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF A CORPORATION:

Name and Address	Official Title (If officer is also director, indicate by "D")	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year	Estimated Net Worth Outside of Applicant	Number of Shares Held in Applicant		Life Insurance Carried for Benefit of Applicant	
				Common	Preferred	Amount	Net Cash Surrender Value After Loans
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Total		x x x x			x x x x	x x x x

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	$	$	$		
Preferred stock	$	$	$		

17. COMPENSATION SCHEDULE:

Instructions: The schedule shall show the amount of compensation being paid to all employees of applicant receiving compensation at a rate in excess of $5,000 per annum computed on a full-time basis. Any compensation in excess of this amount must receive Government approval.

18. COLLATERAL OFFERED AS SECURITY FOR LOAN:

Brief Description	Date Acquired	Cost to Applicant	Present Net Book Value	Appraised	State by Whom Appraised and Date
Real estate (describe):		$	$	$	
Buildings (describe):					
Machinery, equipment, and other chattels exclusive of office furniture and fixtures (describe):					

Future Production Description	Date Expected To Reach Full Production	Gross Value	Net Value

19. CURRENT FINANCIAL STATEMENT:

ASSETS		LIABILITIES	
Current:		Current:	
1. Cash	$	1. Notes payable	$
2. Notes receivable		2. Accounts payable	
3. Accounts receivable		3. Other	
4. Inventories		4. Accrued (interest, taxes, rent, etc.)	
Total		Total	
Fixed and Other:		Fixed and Other:	
5. Plant — Lands		5. Mortgage debt	
5. Plant — Buildings		6. Contracts, leases, royalty	
5. Plant — Ores		7. Other (describe)	
6. Machinery		Total	
7. Equipment, furniture, etc.			
Total		10. Contingent (describe)	

20. CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES:

For years ended _____ th 20__
(Insert date of end of fiscal year)

(*000.00 omitted*)

	(Figures for 3 Preceding Years)			Current Year as of Date of Financial Statement
	19____	19____	19____	
1. Net sales of ores or concentrates				
2. Cost of production				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal income and excess profits taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				

NOTE.—If applicant is incorporated an analysis of surplus should be given in detail for each of the years shown in the above tabulation.

*To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.
NOTE.—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

21. NOTES PAYABLE, MORTGAGE DEBT, AND LIENS:
List notes payable, giving maturity dates, amounts, character of collateral and names of guarantor(s) and/or endorser(s). Give names and addresses of holders of notes.
List names and addresses of holders of mortgages, maturity dates, interest rates, amounts paid and amounts unpaid.
List names and addresses of holders of liens against production, quantity involved, amounts of principal and interest due and dates of repayment.

22. AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN:
No fees or commission shall be paid by applicant for the purpose of procuring a loan. Reasonable compensation may be made for proper services actually rendered to applicant in preparing this application. If such services have been rendered, state kind of services and charges for same. Applicant agrees that all such compensation intended to be paid from the proceeds of the loan, if granted, shall be subject to approval by the Government.

Fred A Joyce
(Applicant)

23. The applicant hereby certifies that the statements made in the foregoing application and all exhibits and documents submitted in connection therewith are true and correct statements to the best of applicant's information and belief and are submitted as a basis for credit.

Dated _____, 19__

Witness: Emmett Lemon

Witness: _____

(For individual applicants)
Fred A Joyce
(Signature)
(For partnership applicants)

_____
(Full name of firm)

By _____, a general partner
(Signature)
(For corporate applicants)

[CORPORATE SEAL]

_____
(Full corporate name of applicant)

Attest.

By _____ _____
(Signature) (Title)

_____ _____
(Signature) (Title)

The United States Criminal Code, 18 U. S. C., Sec. 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.

16—64195-1 U. S. GOVERNMENT PRINTING OFFICE

Form MF-102
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1028.

MF-102 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR GOVERNMENT LOAN
Not to Exceed $50,000
Under the Defense Production Act of 1950

Not to be filled in by applicant

Docket No. DMA 1191

Date received 8-29-51

Name and address of applicant

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

DMA 1191

Date of application

Amount of loan requested

Terms of loan requested

If you have already filed MF-100, give date filed May 10, 1951, type of assistance requested Prospector's Loan 50%, DMA docket number (if available) D.M.A. 1191

INSTRUCTIONS

Application should be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. Submit four copies of this application and four copies of General Technical Data Form MF-100. If the latter form has been filed previously with an application for Government assistance, it is not necessary to file it again. However, the applicant should indicate in space provided above the type of assistance previously applied for (loans, procurement contract, etc.) and DMA docket number, if available.

Name and address of applicant should be stamped or typed on each sheet of the application 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 in the application, indicate where answered. It is not necessary to answer it again.

1. PURPOSE OF LOAN:

Give a brief general statement of the purpose of the loan requested, including in the table below estimated amounts for such major purposes as land acquisition, building construction, purchase of plant, purchase of equipment, working capital, repayment of debt, etc. Statement should make clear whether funds will be used for expansion of capacity, development of technological processes, or production of essential materials.

General Statement. The purpose of the loan requested is to open up the Horton and Hightower Mining Claims, California Mining District, Lake County, Colorado to develop and prospect for lead-zinc lead ore bodies. The loan is necessary to erect a surface plant, repair shaft and drive the necessary prospects underground.

NATURE OF EXPENDITURE	AMOUNT
Prospectors Loan:	
Cost of construction and installation of tramway (Est.)	3,000.00
3 men @ $250.00 per month	750.00
Cost of rental of equipment, hoist, compressor and rock drills per mo.	150.00
~~Powder, fuse, caps, nails, oil, pipe and etc. per mo.~~	~~500.00~~
	TOTAL AMOUNT APPLIED FOR 30,600.00
~~Total per month 4,700.00~~	

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

2. PROPOSED METHOD FOR REPAYMENT OF LOAN:
State how loan will be repaid and proposed schedule of repayment. 1% royalty of ores shipped

3. CLAIMS AGAINST GOVERNMENT:
Explain in detail, stating amount of each claim filed and amount recovered, if any. If no such claim has been filed, so state.
None.

4. EMPLOYMENT:
Will loan result in an increase in the number of employees? If so, how many? No more men until ore is discovered.

5. INSURANCE:
State kind and amount of all insurance carried in favor of applicant. (Fire, public liability, etc.)
Fire, liability and State of Colorado Workmen's Compensation. Inc.

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6. RECENT EFFORTS TO OBTAIN CREDIT: We have not made any other effort for credit.
State efforts to obtain credit, within 60 days preceding date of application, from banks, RFC, or other sources. If refused, give reasons and submit copy of refusal. If a bank will participate in the loan, state name of bank and amount of participation.

7. NECESSITY CERTIFICATES:
List any applications made for Necessity Certificates for tax amortization (under section 124A of the Internal Revenue Code) giving date of application, Government file number, estimated total cost of facilities on each application, and action taken by Government. None

8. OWNERSHIP OF PROPERTY:
Show how property is held. Attach copy of deeds, leases, or other documents conveying to applicant the present interest of the applicant in the mining property. Property held by lease. Copy of lease mailed.

9. LEGAL DESCRIPTION OF PROPERTY:
(a) Give name and mineral survey number of patented claims, if any, and a map.
(b) Give names, dates of location, and place, date book, and page record of all unpatented locations, and a map.
(c) If property is other than mining claims, give description by lot numbers, metes and bounds, or according to accepted legal practice. Mineral and surface not covered.
(d) If mineral rights are separated from surface rights, or if any conflicting or overlapping rights exist in the property give full explanation. Section 2920 and Alternate 3340 (U.S. Mint. Survey)

10. GEOLOGY AND TOPOGRAPHY:
Submit all available information and maps. Application for series of maps with local [illegible] per being made, will be sent you.

11. EXISTING DEVELOPMENT:
(a) Furnish all pertinent information with regard to the ore body or mineral deposit. If maps and sections of the mine are not available, pencil sketches are acceptable. However, such sketches should, if possible, be drawn to scale, or if not, dimensions should be shown. Give all available assays of samples, stating clearly how samples were taken, giving width and location of each sample. Show the location, value, and width of each sample on maps submitted.
(b) Submit certificates, when available, giving analysis of each sample and number each sample to correspond with sample numbers on the maps submitted.
(c) State type of mine, whether tunnel or shaft, and show in detail the existing workings. State distance along dip of vein between levels and to surface. Indicate condition of workings, noting on map caved areas and those areas which it is proposed to make accessible. Shaft and drift into old body of low-grade ore.

12. IF EXPLORATION OR DEVELOPMENT OF MINE IS ANTICIPATED:
(a) State clearly and in detail the proposed work. Repair shaft, retimber old drifts and drive new drifts to prospect for continuation of Malvico vein.
(b) Sketch the proposed work on any maps submitted.
(c) Submit cost estimates.

13. MINING:
(a) Describe mining methods briefly. Shaft, [illegible] and drifts (miscc)
(b) Detail all mining costs including power, water, transportation, etc. $1,700.00 per month
(c) State time required to reach production. 18 months.

14. MILLING:
(a) State how and where ore is to be milled. None
(b) State capacity, percentage of extraction, ratio of concentration, and submit flow sheet, if ore is to be milled by applicant.
(c) Detail the milling costs and transportation costs, if any.
(d) Explain tailing disposal.
(e) Explain source of water and whether it is suitable.
(f) Detail the marketing of concentrates and submit actual or proposed smelter contracts, if available.

15. Submit any available informative data not covered in the preceding paragraphs.

16. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF 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 Applicant (d)	Number of Shares Held in Applicant: Common (e)	Number of Shares Held in Applicant: 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)
John Joyce	50%						
Fred Joyce	50%						
(Above partners will work or contribute in lieu of part of their share of loan)							
	Total		x x x x			x x x x	x x x x

16—64195-1

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 ~~None~~	$	$	$		
Preferred stock ~~None~~	$	$	$		

17. COMPENSATION SCHEDULE:

Instructions: The schedule shall show the amount of compensation being paid to all employees of applicant receiving compensation at a rate in excess of $5,000 per annum computed on a full-time basis. Any compensation in excess of this amount must receive Government approval. Only working partners in this operation will receive compensation at rate of $250.00 per mo.

18. COLLATERAL OFFERED AS SECURITY FOR LOAN:

Brief Description	Date Acquired	Cost to Applicant	Present Net Book Value	Appraised	State by Whom Appraised and Date
Real estate (describe):	Ten year lease on discovery of ore.	$	$	$	
Buildings (describe):	All buildings erected after receiving loan.				
Machinery, equipment, and other chattels exclusive of office furniture and fixtures (describe):	Machinery installed at mine will be rented equipment and not listed as collateral.				

Future Production Description	Date Expected To Reach Full Production	Gross Value	Net Value
	18 months	not known, ore will have to be discovered and mined before value can be determined.	

19. CURRENT FINANCIAL STATEMENT:

Assets		Liabilities	
Current:		**Current:**	
1. Cash ~~Operation None~~	$	1. Notes payable ~~Operation None~~	$
2. Notes receivable		2. Accounts payable	
3. Accounts receivable		3. Other	
4. Inventories		4. Accrued (interest, taxes, rent, etc.)	
Total		Total	
Fixed and Other:		**Fixed and Other:**	
5. Plant — Lands		5. Mortgage debt	
5. Plant — Buildings		6. Contracts, leases, royalty	
5. Plant — Ores		7. Other (describe)	
6. Machinery		Total	
7. Equipment, furniture, etc.			
Total		10. Contingent (describe)	

20. CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES:

For years ended The Operation to start with loan
(Insert date of end of fiscal year)

(*000.00 omitted*)

	(Figures for 3 Preceding Years)			Current Year as of Date of Financial Statement
	19____	19____	19____	
1. Net sales of ores or concentrates				
2. Cost of production				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal income and excess profits taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				

NOTE.—If applicant is incorporated an analysis of surplus should be given in detail for each of the years shown in the above tabulation.

*To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.
NOTE.—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

21. NOTES PAYABLE, MORTGAGE DEBT, AND LIENS: None

List notes payable, giving maturity dates, amounts, character of collateral and names of guarantor(s) and/or endorser(s). Give names and addresses of holders of notes.

List names and addresses of holders of mortgages, maturity dates, interest rates, amounts paid and amounts unpaid.

List names and addresses of holders of liens against production, quantity involved, amounts of principal and interest due and dates of repayment.

22. AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN:

No fees or commission shall be paid by applicant for the purpose of procuring a loan. Reasonable compensation may be made for proper services actually rendered to applicant in preparing this application. If such services have been rendered, state kind of services and charges for same. Applicant agrees that all such compensation intended to be paid from the proceeds of the loan, if granted, shall be subject to approval by the Government.

No cost, prepared personally. Fred A Joyce
(Applicant)

23. The applicant hereby certifies that the statements made in the foregoing application and all exhibits and documents submitted in connection therewith are true and correct statements to the best of applicant's information and belief and are submitted as a basis for credit.

Dated August 24, 1958

Witness: Emmett Dunn

(For individual applicants)

Fred A Joyce
(Signature)

Witness:

(For partnership applicants)

John and Fred Joyce
(Full name of firm)

By _____, a general partner
(Signature)

(For corporate applicants)

[CORPORATE SEAL]

_____
(Full corporate name of applicant)

Attest.

By _____ _____
(Signature) (Title)

_____ _____
(Signature) (Title)

The United States Criminal Code, 18 U. S. C., Sec. 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.

16—64195-1 U. S. GOVERNMENT PRINTING OFFICE

Form MF-102
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1028.

MF-102 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR GOVERNMENT LOAN
Not to Exceed $50,000
Under the Defense Production Act of 1950

Not to be filled in by applicant

Docket No. DMA 1191

Date received 8-29-51

Name and address of applicant

John and Fred Joyce
419 East 5th Street
Leadville, Colorado

DMA 1191

Date of application

Amount of loan requested

Terms of loan requested

If you have already filed MF-100, give date filed May 10, 1951, type of assistance requested Prospector's Loan 508, DMA docket number (if available) D.M.A. 1191

INSTRUCTIONS

Application should be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. Submit four copies of this application and four copies of General Technical Data Form MF-100. If the latter form has been filed previously with an application for Government assistance, it is not necessary to file it again. However, the applicant should indicate in space provided above the type of assistance previously applied for (loans, procurement contract, etc.) and DMA docket number, if available.

Name and address of applicant should be stamped or typed on each sheet of the application 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 in the application, indicate where answered. It is not necessary to answer it again.

AUG 29 8 AM '51 DEFENSE MINERALS ADMINISTRATION WASH. D.C.

1. PURPOSE OF LOAN:

Give a brief general statement of the purpose of the loan requested, including in the table below estimated amounts for such major purposes as land acquisition, building construction, purchase of plant, purchase of equipment, working capital, repayment of debt, etc. Statement should make clear whether funds will be used for expansion of capacity, development of technological processes, or production of essential materials.

General Statement. The purpose of the loan requested is to open up the Norton and Flagstaff Mining Claims, California Mining District, Lake County, Colorado to develop and prospect for low-grade lead ore bodies. The loan is necessary to erect a surface plant, repair shaft and drive the necessary prospects underground.

NATURE OF EXPENDITURE	AMOUNT
Prospectors Loan:	
Cost of construction and installation of machinery (Tot.)	$3,000.00
3 men - $250.00 per month	750.00
Cost of rental of equipment, hoist, compressor and rock drills per mo.	150.00
~~Powder, fuse, carbide, rails, caps, pipe and etc. per. mo.~~	~~500.00~~
TOTAL AMOUNT APPLIED FOR	$30,600.00

~~Total per month $1,700.00~~

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

2. PROPOSED METHOD FOR REPAYMENT OF LOAN:
State how loan will be repaid and proposed schedule of repayment. 1% royalty of ores shipped

3. CLAIMS AGAINST GOVERNMENT:
Explain in detail, stating amount of each claim filed and amount recovered, if any. If no such claim has been filed, so state.
None.

4. EMPLOYMENT:
Will loan result in an increase in the number of employees? If so, how many? No three men until ore is discovered.

5. INSURANCE:
State kind and amount of all insurance carried in favor of applicant. (Fire, public liability, etc.)
Fire, liability and State of Colorado Workmen's Compensation. Inc.

16—64195-1

6. RECENT EFFORTS TO OBTAIN CREDIT: We have not made any other effort for credit.
State efforts to obtain credit, within 60 days preceding date of application, from banks, RFC, or other sources. If refused, give reasons and submit copy of refusal. If a bank will participate in the loan, state name of bank and amount of participation.

7. NECESSITY CERTIFICATES:
List any applications made for Necessity Certificates for tax amortization (under section 124A of the Internal Revenue Code) giving date of application, Government file number, estimated total cost of facilities on each application, and action taken by Government. None

8. OWNERSHIP OF PROPERTY:
Show how property is held. Attach copy of deeds, leases, or other documents conveying to applicant the present interest of the applicant in the mining property. Property held by lease. copy of lease mailed.

9. LEGAL DESCRIPTION OF PROPERTY:
(a) Give name and mineral survey number of patented claims, if any, and a map.
(b) Give names, dates of location, and place, date book, and page record of all unpatented locations, and a map.
(c) If property is other than mining claims, give description by lot numbers, metes and bounds, or according to accepted legal practice. Mineral and surface not covered.
(d) If mineral rights are separated from surface rights, or if any conflicting or overlapping rights exist in the property give full explanation. Norton #2470 and Flagstaff #349 (U.S.Pat.Survey)

10. GEOLOGY AND TOPOGRAPHY:
Submit all available information and maps. Application for copies of maps with local Engineer now being made. Will be sent you.

11. EXISTING DEVELOPMENT:
(a) Furnish all pertinent information with regard to the ore body or mineral deposit. If maps and sections of the mine are not available, pencil sketches are acceptable. However, such sketches should, if possible, be drawn to scale, or if not, dimensions should be shown. Give all available assays of samples, stating clearly how samples were taken, giving width and location of each sample. Show the location, value, and width of each sample on maps submitted.
(b) Submit certificates, when available, giving analysis of each sample and number each sample to correspond with sample numbers on the maps submitted.
(c) State type of mine, whether tunnel or shaft, and show in detail the existing workings. State distance along dip of vein between levels and to surface. Indicate condition of workings, noting on map caved areas and those areas which it is proposed to make accessible. Shaft and drift into old body of low-grade ore.

12. IF EXPLORATION OR DEVELOPMENT OF MINE IS ANTICIPATED:
(a) State clearly and in detail the proposed work. Repair shaft, retimber old drifts and
(b) Sketch the proposed work on any maps submitted. drive new drifts to prospect for cont-
(c) Submit cost estimates. inuation of Adelaide vein.

13. MINING:
(a) Describe mining methods briefly. Shaft, tunnel and drifts (raises)
(b) Detail all mining costs including power, water, transportation, etc. $1,700.00 per month
(c) State time required to reach production. 18 months.

14. MILLING:
(a) State how and where ore is to be milled. None
(b) State capacity, percentage of extraction, ratio of concentration, and submit flow sheet, if ore is to be milled by applicant.
(c) Detail the milling costs and transportation costs, if any.
(d) Explain tailing disposal.
(e) Explain source of water and whether it is suitable.
(f) Detail the marketing of concentrates and submit actual or proposed smelter contracts, if available.

15. Submit any available informative data not covered in the preceding paragraphs.

16. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF A CORPORATION:

Name and Address	Official Title (If officer is also director, indicate by "D")	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year	Estimated Net Worth Outside of Applicant	Number of Shares Held in Applicant		Life Insurance Carried for Benefit of Applicant	
				Common	Preferred	Amount	Net Cash Surrender Value After Loans
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
John Joyce	50%						
Fred Joyce	50%						
(Above partners will work or contribute in labor as part of their share of loan)							
	Total		x x x x			x x x x	x x x x

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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 None	$	$	$		
Preferred stock None	$	$	$		

17. COMPENSATION SCHEDULE:

Instructions: The schedule shall show the amount of compensation being paid to all employees of applicant receiving compensation at a rate in excess of $5,000 per annum computed on a full-time basis. Any compensation in excess of this amount must receive Government approval. Only working partners in this operation will receive compensation at rate of $250.00 per mo.

18. COLLATERAL OFFERED AS SECURITY FOR LOAN:

Brief Description	Date Acquired	Cost to Applicant	Present Net Book Value	Appraised	State by Whom Appraised and Date
Real estate (describe):	Ten year basis on discovery of ore.	$	$	$	
Buildings (describe):	All buildings erected after receiving loan.				
Machinery, equipment, and other chattels exclusive of office furniture and fixtures (describe):	Machinery installed at mine will be rented equipment and not listed as collateral.				

Future Production Description	Date Expected To Reach Full Production	Gross Value	Net Value
	18 months	not known, ore will have to be discovered and mined before value can be determined.	

19. CURRENT FINANCIAL STATEMENT:

ASSETS		LIABILITIES	
Current:		**Current:**	
1. Cash Operation None	$	1. Notes payable Operation None.	$
2. Notes receivable		2. Accounts payable	
3. Accounts receivable		3. Other	
4. Inventories		4. Accrued (interest, taxes, rent, etc.)	
Total		Total	
Fixed and Other:		**Fixed and Other:**	
5. Plant: Lands		5. Mortgage debt	
Buildings		6. Contracts, leases, royalty	
Ores		7. Other (describe)	
6. Machinery		Total	
7. Equipment, furniture, etc.			
Total		10. Contingent (describe)	

20. CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES:

For years ended None incorporation to start with loan
(Insert date of end of fiscal year)

(*000.00 omitted*)

	(Figures for 3 Preceding Years)			Current Year as of Date of Financial Statement
	19____	19____	19____	
1. Net sales of ores or concentrates				
2. Cost of production				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal income and excess profits taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				

NOTE.—If applicant is incorporated an analysis of surplus should be given in detail for each of the years shown in the above tabulation.

*To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.

NOTE.—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

21. NOTES PAYABLE, MORTGAGE DEBT, AND LIENS: None

List notes payable, giving maturity dates, amounts, character of collateral and names of guarantor(s) and/or endorser(s). Give names and addresses of holders of notes.

List names and addresses of holders of mortgages, maturity dates, interest rates, amounts paid and amounts unpaid.

List names and addresses of holders of liens against production, quantity involved, amounts of principal and interest due and dates of repayment.

22. AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN:

No fees or commission shall be paid by applicant for the purpose of procuring a loan. Reasonable compensation may be made for proper services actually rendered to applicant in preparing this application. If such services have been rendered, state kind of services and charges for same. Applicant agrees that all such compensation intended to be paid from the proceeds of the loan, if granted, shall be subject to approval by the Government.

No cost, prepared personally. Fred A Joyce
(Applicant)

23. The applicant hereby certifies that the statements made in the foregoing application and all exhibits and documents submitted in connection therewith are true and correct statements to the best of applicant's information and belief and are submitted as a basis for credit.

Dated August 24, 1951

Witness: Emmett Irwin

(For individual applicants)

Fred A Joyce
(Signature)

Witness:

(For partnership applicants)

John and Fred Joyce
(Full name of firm)

By _____, a general partner
(Signature)

(For corporate applicants)

[CORPORATE SEAL]

(Full corporate name of applicant)

Attest.

By _____ _____
(Signature) (Title)

_____ _____
(Signature) (Title)

The United States Criminal Code, 18 U. S. C., Sec. 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.

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1. Materials produced:

   (a) Lead

   (b) Silver, Gold

2. Name of mine, type etc.
FLAGSTAFF, Sur. No. 348
NEWTON, Sur. No. 2470
(a) 550 ft. linear shafts.
(b) Map shows several drifts.
(c) Some tunnels and adits but whether or not they
(d) are open is unknown without exploration.
Mineis not flooded. No pumping problems.
Size or productive capacity is unknown.

3. (a) 3 miles to A. S. & R. Smelter
(b) California Mining District
(c) FLAGSTAFF, Sur. No. 348, Sections 19 and 30 Township 9, Range 79 West. (10.270 acres)
NEWTON, Sur. No. 2470, Sections 19 and 30 Township 9, Range 70 West (4.980 acres)
(d) Lake County, Colorado.

4. (a) Not now in operation.
   (b) To operate as lessee.

5. Was early-day producer.
Operation will begin as soon as possible, or as soon as application is approved.

6. Experience of Operators:

Lifetime miners (30 years experience)

7. History:

(a) These properties were good early-day producers of lead ore. The operation was suspended when operators became ill and were never resumed. Nothing further is known.

(b) Adjoining properties, the Belgium (Belgian) and Adelaide were large producers of lead ore.

(c) The properties (the Flagstaff and Newton) have not been worked for fifty years and reports, assays etc. are not available.