DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1878

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

APPLICATION FOR EXPLORATION PROJECT

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:	Lead-Zinc Branch	Date	7/26/51
To:	Gen'l Committee	Date	Aug 14 1951
To:	Reports & Records	Date	AUG 20 1951
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 9 1952

So. 157 Howard Street
Spokane 4, Washington

October 2, 1952

Mr. Walter Hanson
c/o Monarch Lease
Wallace, Idaho

Dmea
1878

Dear Mr. Hanson:

Enclosed for your records is a copy of the "Owner's Consent to Lien" on the Monarch Lease. Inasmuch as the contract was not entered into on the Monarch Lease property, the "Owner's Consent to Lien" is no longer of any value. But as you have requested a copy of the lease, I am happy to send it to you.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: Mr. W. J. Emacio
Monarch Lease
Wallace, Idaho

USBM (2)
DMEA (2)

Enclosure

1878 - Monarch Lease - 2/15 report to Washington - contract submitted.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 9 1952

So. 157 Howard Street
Spokane 4, Washington

October 2, 1952

Mr. Walter Hanson
c/o Monarch Lease
Wallace, Idaho

Dear Mr. Hanson:

Enclosed for your records is a copy of the "Owner's Consent to Lien" on the Monarch Lease. Inasmuch as the contract was not entered into on the Monarch Lease property, the "Owner's Consent to Lien" is no longer of any value. But as you have requested a copy of the lease, I am happy to send it to you.

Sincerely yours,

A. T. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: Mr. W. J. Bmacio
Monarch Lease
Wallace, Idaho

USBM (2)
DMEA (2)

Enclosure

FILE COPY
SURNAME:

200

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

SEP 23 1952

Mr. A. E. Weissenborn
Executive Officer
Region II
South 157 Howard Street
Spokane 8, Washington

Dear Mr. Weissenborn:

This will acknowledge receipt of your letter dated September 15, 1952 requesting that a copy of the subordination agreement (Owner's Consent to Lien) signed by Mr. and Mrs. Walter Hanson, and filed with the application of W. J. Emacio, Docket No. DMEA-1878, be returned to you.

In answer to your request there is enclosed herewith a copy of Owner's Consent to Lien signed by Mr. and Mrs. Hanson.

Sincerely yours,

9-23-52

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chairman, Operating Committee

Enclosure

READams/meb
9-22-52
cc to: Adm.Reading File
Mails & Files Br.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 19 1952

So. 157 Howard Street
Spokane 4, Washington

September 15, 1952

1578

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Application of W. J. Emacio
Monarch Lease
Shoshone County, Idaho
Lead-Zinc

Dear Mr. Johnson:

Some time ago at our request you returned to us for transmittal to Mr. Walter Hanson the lease agreements which he had submitted in connection with the Monarch Lease application, Shoshone County, Idaho, and we returned these to Mr. Hanson through Mr. W. J. Emacio, the applicant. Mr. Hanson, however, called at our office today and stated that these were not the papers he wanted; what he wanted was one copy of the subordination agreement which he claims he wants for his files. I do not really know why Mr. Hanson feels that he must have a copy of the subordination agreement, which he signed, but inasmuch as he is very insistent about this I would appreciate it greatly if you would send to us one copy of the subordination agreement so that it could be returned to him.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

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

So. 157 Howard Street
Spokane 4, Washington

September 15, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D. C.

Re: Application of W. J. Emacio
Monarch Lease
Shoshone County, Idaho
Lead-Zinc

Dear Mr. Johnson:

Some time ago at our request you sent them to us for transmittal to Mr. Walter Hanson the lease agreements which he had submitted in connection with the Monarch Lease application, Shoshone County, Idaho, and we returned these to Mr. Hanson through Mr. W. J. Emacio, the applicant. Mr. Hanson, however, called at our office today and stated that these were not the papers he wanted; what he wanted was one copy of the subordination agreement which he claims he wants for his files. I do not really know why Mr. Hanson feels that he must have a copy of the subordination agreement, which he signed, but inasmuch as he is very insistent about this I would appreciate it greatly if you would send to us one copy of the subordination agreement so that it could be returned to him.

Sincerely yours,

A. E. Meissenborn
Executive Officer, DMEA
Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 19 1952

FILE COPY
SURNAME:

200

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

JUL 23 1952

Mr. A. E. Weissenborn
Executive Officer
Region II
South 157 Howard Street
Spokane 8, Washington

Dear Mr. Weissenborn:

In response to your teletype dated July 18, 1952, there are enclosed herewith copies of a lease agreement signed by Mr. and Mrs. Walter Hanson. These are the only papers, other than the application itself, submitted by Mr. and Mrs. Hanson.

Sincerely yours,

(signed) FRANK E. JOHNSON
Acting Administrator
Defense Minerals Exploration
Administration

(B.J.H.)

D.N.
7-23-52

Enclosures

READams/meb
7-22-52
cc to: Adm.Reading File
Mails & Files Br.

DOMESTIC SERVICE		
Check the class of service desired; otherwise this message will be sent at the full rate telegram		
FULL RATE TELEGRAM		
DAY LETTER	NIGHT LETTER	

WESTERN UNION

W. P. MARSHALL, PRESIDENT

1206

INTERNATIONAL SERVICE		
Check the class of service desired; otherwise this message will be sent at the full rate		
FULL RATE	LETTER TELEGRAM	
VICTORY LETTER	SHIP RADIOGRAM	

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

CONFIRMATION

TELETYPE

JULY 18, 1952

MR. FRANK E. JOHNSON
CHAIRMAN, OPERATING COMMITTEE
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 21 1952

PLEASE RETURN TO US ALL COPIES SUBORDINATION AGREEMENT, MONARCH LEASE, SHOSHONE COUNTY, DMEA 1878X SIGNED BY WALTER HANSON AND WIFE. HANSON DEMANDING THESE AND THREATENING LEGAL ACTION AGAINST MONARCH LEASE COMPANY UNLESS RETURNED. CONTRACT WAS DENIED.

A. E. WEISSENBORN
EXECUTIVE OFFICER, DMEA
FIELD TEAM, REGION II

ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, o[illegible] the unrepeated message rate is charged in addition. Unless otherwise indicated on its face, this is an unrepeated message and paid for as such, in consideration whereof it is agree[illegible]ween the sender of the message and this Company as follows:

1. The Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the unrepeated-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines.

2. In any event the Company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the actual loss, not exceeding in any event the sum of five thousand dollars, at which amount the sender of each message represents that the message is valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid, and an additional charge equal to one-tenth of one percent of the amount by which such valuation shall exceed five thousand dollars.

3. The Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.

4. Except as otherwise indicated in connection with the listing of individual places in the filed tariffs of the Company, the amount paid for the transmission of a domestic telegram or an incoming cable or radio message covers its delivery within the following limits: In cities or towns of 5,000 or more inhabitants where the Company has an office which, as shown by the filed tariffs of the Company, is not operated through the agency of a railroad company, within two miles of any open main or branch office of the Company; in cities or towns of 5,000 or more inhabitants where, as shown by the filed tariffs of the Company, the telegraph service is performed through the agency of a railroad company, within one mile of the telegraph office; in cities or towns of less than 5,000 inhabitants in which an office of the Company is located, within one-half mile of the telegraph office. Beyond the limits above specified the Company does not undertake to make delivery, but will endeavor to arrange for delivery as the agent of the sender, with the understanding that the sender authorizes the collection of any additional charge from the addressee and agrees to pay such additional charge if it is not collected from the addressee. There will be no additional charge for deliveries made by telephone within the corporate limits of any city or town in which an office of the Company is located.

5. No responsibility attaches to this Company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender.

6. The Company will not be liable for damages or statutory penalties when the claim is not presented in writing to the Company, (a) within sixty days after the message is filed with the Company for transmission in the case of a message between points within the United States (except in the case of an intrastate message in Texas) or between a point in the United States on the one hand and a point in Alaska, Canada, Labrador, Mexico, Newfoundland and St. Pierre & Miquelon Islands on the other hand, or between a point in the United States and a ship at sea or in the air, (b) within 95 days after the cause of action, if any, shall have accrued in the case of an intrastate message in Texas, and (c) within 180 days after the message is filed with the Company for transmission in the case of a message between a point in the United States and a foreign or overseas point other than the points specified above in this paragraph; provided, however, that this condition shall not apply to claims for damages or overcharges within the purview of Section 415 of the Communications Act of 1934.

7. It is agreed that in any action by the Company to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.

8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the Company is authorized to vary the foregoing.

1-49

CLASSES OF SERVICE

DOMESTIC SERVICES

FULL RATE TELEGRAM

A full rate expedited service.

DAY LETTER (DL)

A deferred service at lower than the full rate.

SERIAL (SER)

Messages sent in sections during the same day.

NIGHT LETTER (NL)

Accepted up to 2 A. M. for delivery not earlier than the following morning at rates substantially lower than the full rate telegram or day letter rates.

INTERNATIONAL SERVICES

FULL RATE (FR)

The standard fast service at full rates. May be written in any language that can be expressed in Roman letters, or in secret language. A minimum charge for 5 words applies.

LETTER TELEGRAM (LT)

Overnight plain language messages. Minimum charge for 22 words applies.

VICTORY LETTER TELEGRAM (VLT)

Overnight plain language messages to armed forces overseas. Minimum charge for 10 words applies.

SHIP RADIOGRAM

A service to and from ships at sea. Plain or secret language may be used. Minimum charge for 5 words applies.

TAO

272 WA SP /I-GS-G/

SPOKANE 7-18-52 1045A

FRANK E JOHNSON CHAIRMAN OPERATING COMMITTEE DEFENSE MINERALS EXPLORATION ADMINISTRATION

WA

PLEASE RETURN TO US ALL COPIES SUBORDINATION AGREEMENT MONARCH LEASE SHOSHONE COUNTY DMEA-1878X SIGNED BY WALTER HANSON AND WIFE. HANSON DEMANDING THESE AND THREATENING LEGAL ACTION AGAINST MONARCH LEASE COMPANY UNLESS RETURNED. CONTRACT WAS DENIED.

A E WEISSENBORN EXECUTIVE OFFICER DMEA FIELD TEAM REGION 2, SP

DMEA-1878X

JH 1049A

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 22 1952

JUL 21 3 46 PM '52
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D. C.

FILE COPY
500
SURNAME:

Keating
Moulds

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

Hon. John Wood
House Office Building
Washington, D. C.

Attention: Mr. McBride

My dear Mr. Wood:

With reference to your request relative to the application of Mr. W. J. Emacio and Partners, Monarch Lease, Wallace, Idaho, Docket No. 1878, I am pleased to furnish you with the following information.

On August 1, 1951, a geologist member of the Field Team attempted to examine the property but found that while the main adit level drifts were accessible, heavily timbered drifts and stopes prevented any examination of the mineralized structure in that area. The Geologist also found that, although the block of ground in which the applicant was interested, between the main level and the surface, had been opened by raises, shafts and tunnels, most of these workings were inaccessible. Upon being advised of this, the applicants indicated they would do the work to make the required area available for inspection.

On December 4, 1951 an engineer again visitied the mine and found some of the workings accessible but many were not.

This engineer gives three separate estimates of possible ore between the 600 and 787 foot levels as follows:

"(1) 1500 tons containing 25% combined lead and zinc.
(an optimistic maximum, probably unlikely)

(2) 3,720 tons containing 10% combined lead and zinc.
(a more realistic estimate)

(3) 2,000 tons containing 5% zinc.
(a pessimistic guess)"

So far as can be ascertained from the reports submitted, no samples were taken nor were assay results submitted. Evidently the opinions expressed were necessarily based on assumptions and conjectures

resulting from a study of the history of the mine and the experiences reported by some of the lessers.

It appears that the work proposed by the applicant is more in the nature of preparing the property for possible production than that of exploration. The program principally consists of the rehabilitation and repair of very extensive levels and raises which would, in effect, put the mine in condition for operation.

The cost and hazard of rehabilitating the present extensive raises to the upper levels is prohibited, particularly so since the estimated cost of the proposed 300 feet of exploratory drifting should not exceed something over $10,000.00, while the preparation necessary for that work as requested by the applicant, approximates $65,000.

The estimated expense of $75,236 for the proposed program is not justified by the amount of metal which could reasonably be expected to be found in the block of ground to be explored.

Suggesting an alternative method of exploration would not be acceptable to the applicant since he has expressed no interest in exploration in those areas of the mine which can be reached more easily.

Under the circumstances and for the reasons given above the application for financial assistance for exploration was denied.

Sincerely yours,

C. O. Mittendorf (for) 4/17

Acting Administrator
Defense Minerals Exploration
Administration

AGKeating hmj
4-14-52
CC to: Adm. Reading File
Docket File Copy
Mr. Bishop
Mr.MCKnight
Region II
Mr. Moulds
Mr. Keating

500
FILE COPY
SURNAME:

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

Keating
Moulds
Hedges
Thayer
H. Gilmore

APR 10 1952

Mr. W. J. Emacio
Monarch Lease
Wallace, Idaho

Re: Docket No. 1878, Lead-Zinc
W. J. Emacio and Partners
Monarch Lease, Wallace Idaho

Dear Mr. Emacio:

The Government has made a careful study of the data submitted in your application, together with all the geological and field reports available. This study has caused us to reach the conclusion that the program of work you propose can not be supported by sufficient, positive evidence to indicate that it might be successful.

Further consideration has been given to the possibility of determining an alternative program, but we have been unable to reach any favorable conclusion regarding such a program. Under the circumstances, it is necessary for us to advise you that your application for exploration project assistance is denied.

It is with regret that we inform you of this unfavorable decision regarding your request. We wish to express our appreciation of the opportunity you have given us to consider your defense exploration project.

Sincerely yours,

C. O. Mittendorf

F.N. 4-10-52

Acting Administrator
Defense Minerals Exploration
Administration.

AGKeating/hmj
4-7-52
CC to: Adm. R. File
Docket File Copy
Region II (2)
Mr. Bishop
Mr. McKnight
Operating Committee
Mr. Moulds
Mr. Keating

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

April 7, 1952

Memorandum

To: C. O. Mittendorf

From: Base Metals Division

Subject: Recommendation for denial of application for exploration project assistance, Docket No. 1878, W. J. Emacio and partners, Monarch Lease, Wallace, Idaho.

The above named application for exploration project assistance was submitted under date of July 17, 1951, in which the applicant's proposal contemplates an expenditure of $75,236. The work to consist of rehabilitating all levels in the mine above the 1400 foot level (main adit tunnel) and to clean up and repair two raises, Raise C running from this level to the 600 foot level and Raise A from the 600 foot level to the 300 foot level. From Raise C at the 700 foot horizon, a drift is to be run approximately 300 feet in a northwesterly direction to explore an approximate location of bodies of sphalerite ore reportedly left unmined by earlier leasers.

On August 1, 1951, a geologist member of the Field Team attempted to examine the property but found that while the main adit level drifts were accessible, heavily timbered drifts and stopes prevented any examination of the mineralized structure in that area. The Geologist also found that, although the block of ground in which the applicant was interested, between the main level and the surface, had been opened by raises, shafts and tunnels, most of these workings were inaccessible. Upon being advised of this, the applicants indicated they would do the work to make the required area available for inspection.

On December 4th, 1951 R. E. Wallace, an engineer of the USGS, visited the mine and found some of the workings accessible but many were not. However, he reported that past records, covering a period of years, indicated that over $126,000.00 in lead, zinc and silver values had been shipped from the mine and that in his opinion there appeared to be a possibility that a significant amount of lead and zinc could be produced from the property.

In a supplementary report, engineer Wallace gives three separate estimates of possible ore between the 600 foot and 787 foot levels as follows:

"(1) 1500 tons containing 25% combined lead and zinc. (an optimistic maximum, probably unlikely)

(2) 3,720 tons containing 10% combined lead and zinc. (a more realistic estimate)

(3) 2,000 tons containing 5% zinc. (a pessimistic guess)"

So far as can be ascertained from the reports of the examining engineer, no samples were taken nor were assay results submitted. Evidently the opinions expressed were necessarily based on assumptions and conjectures resulting from a study of the history of the mine and the experiences reported by some of the leasers.

It appears that the work proposed by the applicant is more in the nature of preparing the property for possible production than that of exploration. The program principally consists of the rehabilitation and repair of very extensive levels and raises which would, in effect, put the mine in condition for operation.

The cost and hazard of rehabilitating the present extensive raises to the upper levels is prohibited, particularly so since the estimated cost of the proposed 300 feet of exploratory drifting should not exceed something over $10,000, while the preparation necessary for that work as requested by the applicant, approximates $65,000.

The estimated expense of $75,236 for the proposed program is not justified by the amount of metal which could reasonably be expected to be found in the block of ground to be explored.

Suggesting an alternative method of exploration would not be acceptable to the applicant since he has expressed no interest in exploration in those areas of the mine which can be reached more easily.

Under the circumstances and for the reasons given above, the Base Metals Division concurs with the Field Team and the Washington reviewers for the Bureau of Mines and Geological Survey that the subject application for financial assistance for exploration be recommended for denial.

D E Moulds

D. E. Moulds

FILE COPY
SURNAME:

Keating
Moneda

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

April 7, 1952

Memorandum

To: C. O. Mittendorf

From: Base Metals Division

Subject: Recommendation for denial of application for exploration project assistance, Docket No. 1878, W. J. Emacio and partners, Monarch Lease, Wallace, Idaho.

The above named application for exploration project assistance was submitted under date of July 17, 1951, in which the applicant's proposal contemplates an expenditure of $75,236. The work to consist of rehabilitating all levels in the mine above the 1400 foot level (main adit tunnel) and to clean up and repair two raises, Raise C running from this level to the 600 foot level and Raise A from the 600 foot level to the 300 foot level. From Raise C at the 700 foot horizon, a drift is to be run approximately 300 feet in a northwesterly direction to explore an approximate location of bodies of sphalerite ore reportedly left unmined by earlier leasers.

On August 1, 1951, a geologist member of the Field Team attempted to examine the property but found that while the main adit level drifts were accessible, heavily timbered drifts and stopes prevented any examination of the mineralized structure in that area. The Geologist also found that, although the block of ground in which the applicant was interested, between the main level and the surface, had been opened by raises, shafts and tunnels, most of these workings were inaccessible. Upon being advised of this, the applicants indicated they would do the work to make the required area available for inspection.

On December 4th, 1951 R. E. Wallace, an engineer of the USGS, visited the mine and found some of the workings accessible but many were not. However, he reported that past records, covering a period of years, indicated that over $126,000.00 in lead, zinc and silver values had been shipped from the mine and that in his opinion there appeared to be a possibility that a significant amount of lead and zinc could be produced from the property.

In a supplementary report, engineer Wallace gives three separate estimates of possible ore between the 600 foot and 787 foot levels as follows:

"(1) 1500 tons containing 25% combined lead and zinc. (an optimistic maximum, probably unlikely)

(2) 3,720 tons containing 10% combined lead and zinc. (a more realistic estimate)

(3) 2,000 tons containing 5% zinc. (a pessimistic guess)"

So far as can be ascertained from the reports of the examining engineer, no samples were taken nor were assay results submitted. Evidently the opinions expressed were necessarily based on assumptions and conjectures resulting from a study of the history of the mine and the experiences reported by some of the leasers.

It appears that the work proposed by the applicant is more in the nature of preparing the property for possible production than that of exploration. The program principally consists of the rehabilitation and repair of very extensive levels and raises which would, in effect, put the mine in condition for operation.

The cost and hazard of rehabilitating the present extensive raises to the upper levels is prohibited, particularly so since the estimated cost of the proposed 300 feet of exploratory drifting should not exceed something over $10,000, while the preparation necessary for that work as requested by the applicant, approximates $65,000.

The estimated expense of $75,236 for the proposed program is not justified by the amount of metal which could reasonably be expected to be found in the block of ground to be explored.

Suggesting an alternative method of exploration would not be acceptable to the applicant since he has expressed no interest in exploration in those areas of the mine which can be reached more easily.

Under the circumstances and for the reasons given above, the Base Metals Division concurs with the Field Team and the Washington reviewers for the Bureau of Mines and Geological Survey that the subject application for financial assistance for exploration be recommended for denial.

D. E. Moulds (mh)

D. E. Moulds

DEMoulds/hmj
4-7-52
CC to: Adm. R. File
Docket File Copy
Mr. Moulds Mr. Keating

IN REPLY REFER TO:

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

March 27, 1952

Memorandum

To: Mr. D. E. Moulds, DMEA

From: Erwin J. Lyons, USGS

Subject: Recommendation for denial of application (DMA-docket 1878) submitted by W. J. Emacio, Wallace, Idaho

Applicant submitted a request for an exploration grant of $75,236.00 on a participating basis to explore the Monarch mine, 5 miles southeast of Murray, Shoshone County, Idaho. The application was referred to the field team. The examining geologist recommended that a project having a total cost of $62,005.00 be approved. A U.S. Bureau of Mines' engineer after reviewing the proposed project and the report of the examiner, concluded that the ore which might reasonably be expected to be found would not have sufficient value to repay the loan. The field team has agreed with this conclusion and has recommended that the application be denied. The present reviewer concurs with this recommendation.

Erwin J. Lyons
Erwin J. Lyons
Geologist

I concur with the above.

O. M. Bishop
O. M. Bishop
Base Metals Branch
USBM

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

March 27, 1952

Memorandum

To: Mr. D. E. Moulds, DMEA

From: Erwin J. Lyons, USGS

Subject: Recommendation for denial of application (DMA-docket 1878) submitted by W. J. Emacio, Wallace, Idaho

Applicant submitted a request for an exploration grant of $75,236.00 on a participating basis to explore the Monarch mine, 5 miles southeast of Murray, Shoshone County, Idaho. The application was referred to the field team. The examining geologist recommended that a project having a total cost of $62,005.00 be approved. A U.S. Bureau of Mines' engineer after reviewing the proposed project and the report of the examiner, concluded that the ore which might reasonably be expected to be found would not have sufficient value to repay the loan. The field team has agreed with this conclusion and has recommended that the application be denied. The present reviewer concurs with this recommendation.

Erwin J. Lyons
Geologist

I concur with the above.

O. M. Bishop
Base Metals Branch
USBM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA's copy

So. 157 Howard Street
Spokane 4, Washington

March 12, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

Memorandum

To: Chairman, Operating Committee, DMEA

From: Field Team, Region II, DMEA

Subject: Field Team report and proposed Exploration Project Contract on the Monarch Lease, Shoshone County, Idaho, DMA Docket 1878X.

Enclosed are two copies of Form MF-100 and MF-103, submitted by holders of the Monarch Lease; one copy of "Review of Application for Exploration Assistance"; four copies of a DMEA examination report by R. E. Wallace, U. S. Geological Survey; six copies of a proposed Exploration Project Contract, and four copies of a cost analysis and recommendation by Mr. H. T. Reno, U. S. Bureau of Mines.

Mr. Wallace reports that there appears to be a good possibility that a significant amount of lead and zinc can be produced from the Monarch property, and that the property has already produced over $126,000 in lead, zinc and silver values. However, Mr. Reno's cost analysis shows that the exploration costs of the specific project proposed are high when judged in terms of possible ore recovery from that project.

Although, as Wallace states, prospecting of other blocks of ground in the property probably would be worthwhile, such projects would be more of a "wildcat" nature, and there is considerable doubt that the present operators would be interested in conducting such a program.

Considering the project proposed, therefore, the Field Team recommends that the loan applied for be denied.

By DMEA Field Team, Region II

Reviewed by
DMEA OPERATING COMMITTEE
3-24-52
(date) (NB)

A. E. Weissenborn, Executive Officer
(U. S. Geological Survey)

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures
cc: USBM, Spokane
USBM, Albany

1201 N. Division St.
Spokane 2, Wash.
March 10, 1952

MEMORANDUM

To: M. L. Volin, Member, DMEA Field Team, Region II

From: M. T. Reno, Mining Engineer, Bureau of Mines

Subject: Application for exploration loan, Monarch Lease, Shoshone County, Idaho, Docket 1878X

I have reviewed the subject application and accompanying report by R. E. Wallace of the U. S. Geological Survey. It is recommended that the loan be denied.

The exploration program contemplates: (1) entering the workings through the 300 level adit and installing a hoist at the "A" raise; (2) rehabilitating about 200 feet of the "A" raise and hoisting 45 feet of muck from the bottom of the raise to gain access to the 600 level; (3) rehabilitating about 450 feet of the 600 level and installing a hoist at the top of the "C" raise; (4) rehabilitating the "C" raise to a proposed 700 level, excavating a pocket, and drifting 300 feet on this level; (5) 300 feet of drifting on the 300 level and 150 feet of drifting on the 400 level; and (6) a total of 1330 lin. ft. of long hole drilling from strategic positions on the 300, 400, 600, and 700 levels.

This program involves installing 2 hoists, quadruple handling of the muck from the 700 level, and triple handling from the 600 and 400 levels.

The $62,000 estimated expense of the proposed program is not justified by the amount of metal which can reasonably be expected in the block of ground to be explored. The work as proposed will be of little use to the operator in future production operations unless the ore is of high enough grade to support the expense of four transfers including two hoisting operations.

Wallace, in his supplementary report, gives three separate estimates of possible ore between the 600 and 787 levels as follows:

1. "15,000 tons containing 25% combined lead and zinc. (an optimistic maximum, probably unlikely)"

Subject: Application for exploration loan, Monarch Lease, Shoshone County, Idaho, Docket 1878X

2. "3,720 tons containing 10% combined lead and zinc. (a more realistic estimate)"

3. "2,000 tons containing 5% zinc. (a pessimistic guess)"

He also estimates 3,000 tons containing 10% combined lead and zinc above the 300 level which should not be considered in evaluating the program as most of the work is below this level.

The approximate value of the metal in each estimate, assuming 90% mill recovery, a 75% concentrate, and pay for 90% of the metal at 19¢ per pound less smelter charges, and the amount available to repay the loan at 5% of the gross less $8.00 per ton of ore, is as follows:

Estimate No.	Value	Available to repay loan
1.	$1,094,250	$48,712
2.	107,061	4,865
3.	28,780	639

Judging from the history of the mine and the experience of some of the lessors, as outlined in Wallace's report, I am inclined to believe that estimate No. 3 is the best guess. However, No. 1, the optimistic maximum, is the only estimate of the three that indicates sufficient metal value to repay the loan.

Suggesting an alternate method of exploring this property does not seem to be in order. The cost and hazard of rehabilitating the present raise to the upper levels is prohibitive and, according to Wallace, the applicant is not interested in exploration at and from the lower levels.

cc: USGS, Spokane

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

No. 157 Howard Street
Spokane 4, Washington

February 29, 1952

Memorandum

To: A. L. Weissenborn, Executive Officer, DMA Field Team, Region II

From: R. L. Wallace, U. S. Geological Survey

Subject: Monarch Lease, Shoshone County, Idaho

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 20 1952

This statement is supplementary to my memorandum to you of December 4, 1951, and covers additional information needed by reviewers of the proposed contract for the Monarch Lease, Shoshone County, Idaho.

Opinion regarding competency of operator: The group of partners that constitute the Monarch Lease includes men whose professions and specialities include most of the major phases of mine management such as mine accounting, mine equipment, mine law, and actual mining. It represents an array of talent that, if used, should provide very capable management. Most of them, however, have entered this group financially, and not necessarily actively, but the group, nevertheless, represents a potentially sound managerial unit.

Condition of "C" raise as an alternate approach to objective: The multiple handling of material necessitated by the proposed exploration plan warrants further scrutiny of other approaches to the objective, principally from below through the "C" raise.

As stated in my earlier report, "C" raise is caved or filled between the 1,400 and 1,200 levels; is opened between the 1,200 and 1,000 levels; is reported caved near the 900 level; and may be opened between the 840 and 600 levels. An approach to the possible ore body between the 600 and 900 level, from below, through the "C" raise would require rehabilitation of the "C" raise, which would be difficult and perhaps impossible. It is filled, but possibly was first caved between the 1,400 and 1,200 levels. Near the 900 level, it is reported to be caved and also that some earlier lessee had attempted to by-pass the cave with another raise, but abandoned the attempt when he encountered large slumped blocks that made operations hazardous. The

present lessees, therefore, prefer to examine the block of ground through the upper workings, hoping that a minimum amount of caved ground will be encountered in that approach.

I understand that the lessees plan on an entirely new raise from the 1,400 level through which mining operations would be conducted, if the ore body proved of sufficient grade.

Milling: As with other small properties in the Coeur d'Alene district, the ore would be milled by some custom mill in the district. This would require trucking approximately 25 miles to the vicinity of Wallace, Idaho.

Estimated ore: To provide a more specific evaluation of productive potential of the Monarch Lease, the following estimates are made. Calculations are made on several bases, as all represent guesses.

Ore in block between 600 and 787 level

Estimate No. 1 (an optimistic maximum--probably unlikely)

Assumption: a. That a block between the 600 and 786 level, 200 feet long, contains a continuous 3-feet wide vein of high-grade (25 percent) lead-zinc ore.

$$\frac{186' \times 200' \times 3'}{12 \text{ cu. ft. per ton}} = \text{9,500 tons of 25 percent combined Pb-Zn ore}$$

A further possibility is that two parallel veins exist. This might add half again or more ore = 15,000 tons of 25 percent combined Pb-Zn ore

Estimate No. 2 (a more realistic estimate)

Assumptions: a. The ore is in elongated, plunging pods, spaced about as on No. 2 level. This would cut the total tonnage of Estimate No. 1 by 60 percent.

b. Range of ore width is from 0 to 6 feet. Dilution and lower grade portions cut ore grade to average 10 percent combined lead-zinc.

9,500 x 40 percent = 3,780 tons of 10 percent combined Pb-Zn ore.

Estimate No. 3 (a pessimistic guess)

Assumptions: Unknown which would most drastically effect estimate is exact extent of old stoping. Although no reports indicate so, possibly 50 percent, principally lead ore, has been removed from this block. The grade might be much lower than reports would suggest. To introduce such an unknown factor, cut both tonnage and grade of estimate No. 2 in half

= 2,000 tons of 5 percent ore, principally Zn

Ore in block between 300 level and surface

Estimate No. 1 (a realistic, but optimistic, guess)

Assumption: Existence of three minable pods of ore 40 feet x 100 feet x 3 feet of 10 percent combined Pb-Zn ore 40 x 100 x 3 = 12,000 cu. ft. at 12 cu. ft. to ton = 1,000 tons x 3 = 3,000 tons of 10 percent combined Pb-Zn ore

Other ore: As stated in the original report, there are many other blocks of ground that probably contain ore, but prospecting for such ore is distinctly wild-catting at this stage. The typical good pod of ore mined seems to have been about 40 x 100 x 3 feet in dimensions as indicated above, but there is no evidence to rule out the possibility of pods several times this size either in parallel veins or below the known veins.

Also as stated previously, past production since 1905 has amounted to over $126,000 of ore (according to partial smelter-return records). Old stope and mine maps and drilling records indicate that well-testing and systematic prospecting was incomplete. This, together with here-say reports concerning mine ore that was left unmined, suggests that at least an equal tonnage as has been mined still remains. At present prices this would represent several times the above value. The approach to much of this block of ground, however, is now actually more difficult than prior to original mining, and is the chief difficulty in recovering this ore.

R. E. Wallace

cc: USBM-Spokane

IN REPLY REFER TO:

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

February 7, 1952

Re: DMA-1878
Monarch Lease, Wallace, Idaho
Exploration loan - $75,236
Lead zinc

Memorandum

To: Mr. D. E. Moulds

From: Mr. E. T. McKnight

Subject: Returning memoranda for filing

Three memoranda are herewith returned for your files. The field team examination is useless until the workings are accessible.

Edwin T. McKnight

Edwin T. McKnight
Geologist

Attachment

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

February 7, 1952

Re: DMA-1878
Monarch Lease, Wallace, Idaho
Exploration loan - $75,236
Lead zinc

Memorandum

To: Mr. D. E. Moulds

From: Mr. E. T. McKnight

Subject: Returning memoranda for filing

Three memoranda are herewith returned for your files. The field team examination is useless until the workings are accessible.

Edwin T. McKnight

Edwin T. McKnight
Geologist

Attachment

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

February 4, 1952

MEMORANDUM

To: Chairman, Operating Committee, DMEA

From: A. E. Weissenborn, Executive Officer, DMEA
Field Team, Region II

Subject: Monarch Lease, Shoshone County, Idaho, Docket No. 1878

The attached memo to me from Robert E. Wallace of the U. S. Geological Survey outlines in brief but very clear form the status of the docket at the present time. I think this chronological summary will be of interest to you, not only because of the information concerning the status of the Monarch Lease application itself, but because it shows quite clearly the labor that is involved in processing some of these applications in the field and the reasons for some of the delays on the part of the Field Team.

A. E. Weissenborn
A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure
cc: M. E. Volin

FEB 1 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

February 1, 1952

Memorandum

To: A. E. Weissenborn, Executive Officer, DMEA
Field Team, Region II

From: Robert E. Wallace, Geologist

Subject: Monarch Lease, Shoshone County, Idaho

This is a chronological summary of action that has thus far been taken on the application for a DMEA loan on the Monarch Lease, Shoshone County, Idaho.

July 17, 1951 - Date of application.

August 1, 1951 - Preliminary field report by S. W. Hobbs to A. E. Weissenborn. Property in process of being reopened so detailed examination postponed.

August 23, 1951 - Receipt in Spokane of referral for Monarch Lease. Memo sent from A. E. Weissenborn to Tom Lyon explaining that preliminary examination already made.

Sept. - Oct. " - Principal workings opened and field examination completed. Conference with Monarch Lease officers. Second conference with James Doyle (partner) to plan specific program and outline costs for amendment to original application.

November 26, " - Completed amendment received in Spokane.

December 5, " - Tentative draft of contract sent to Magnuson of Monarch Lease by R. E. Wallace incorporating suggested editorial changes and requesting time schedule and copy of lease.

December 18, " - Magnuson returned tentative contract with approval and also sent copy of lease.

December 21, 1951 - Contract reviewed by Kiilsgaard and request for missing subordination agreement sent to Magnuson.

2nd week - Jan,1952 - Mr. Walter H. Hanson, owner, conferred with Kiilsgaard, Wallace and Hobbs about the subordination agreement. New type forms given to Hanson.

Status Feb.1, 1952 - No further word from Hanson or Monarch Lease officers. Tentative contract and field report ready for transmittal to Washington, but still no subordination agreement.

R.E. Wallace

REW:lm

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

157 So. Howard Street
Spokane 6, Washington

December 6, 1951

MEMORANDUM

To: A. E. Weissenborn, Executive Officer, DMA, Field Team, Region II

From: R. E. Wallace, USGS

Subject: Monarch Lease, Shoshone County, Idaho

The following report is intended to provide a general picture of the setting of the Monarch mine near Murray, Idaho, both geologically and geographically. The investigation was made for the Defense Minerals Exploration Administration in connection with an application for an exploration loan by a group which has the Monarch mine under lease.

SUMMARY STATEMENT

The Monarch mine has been a producer of lead and zinc intermittently since 1905. Old reports and examination of accessible workings indicate a good possibility of appreciable quantities of zinc ore in parts of the mine not now accessible. Much of the zinc ore apparently was bypassed in early mining because at the time there was not a market for zinc.

Also, several vein structures, which were observed in the accessible workings, have not been thoroughly prospected and warrant further testing. There is a good possibility that a significant amount of lead and zinc can still be produced from the Monarch mine.

LOCATION

The Monarch mine is located in northern Idaho, near the northern edge of the Coeur d' Alene mining district approximately four miles southeast of Murray, Idaho, ten miles northeast of Wallace Idaho, and three miles west of the Idaho-Montana boundary. The name of the mine and the location of the No. 2 or 300 level on the property are shown on the geologic map of the Coeur d' Alene District, Idaho, which accompanies U. S. Geological Survey, Professional Paper No. 62, by Ransome and Calkins.

ACCESSIBILITY, MAPPING

The property is on a dirt-gravel road maintained by Shoshone County and is passable the entire year. The 1600 or main level is only a few hundred feet from the County road, the no. 2 or 300 level can be reached by a steep, narrow, but accessible road from the main portal.

Two frame buildings, a small shed over the main portal and a portion of the trail on the dump, and some mining equipment (not inventoried) lord on the property in October 1951. Power lines were completed to the property during the period of investigation. Sufficient water is available.

CONDITION OF WORKINGS

The accompanying maps indicate the extent of the workings which were accessible at the time of examination. Tunnel and track were in excellent condition on the 1600 level from portal to the "D" raise. The 2300 level is in good condition except for the drift off 1200 level south which is partially caved. No. 2 or 300 level is in fair condition except near the portal. "C" raise is caved or filled between the 1400 and 1200 levels, is open between the 1200 and 1000 levels, is reported caved near the 800 level, and may be opened between the 600 and 800 levels. Raise "D" between the 1400 and 1200 levels was repaired recently and is now opened. Raise "A" to the 800 level is caved down to a point 45 feet above the 600 level, below which it is filled with rock. The 600 and 500 levels are opened.

Most of the stations at the shaft need retimbering, but in the portion of the shaft examined, timber is in fair to good condition.

HISTORY

The Monarch mine reportedly has produced lead and zinc ores intermittently since 1905. Statements of smelter returns are on hand for the years 1911, 1912, 1913, 1914, 1916, 1941, 1942, and a production of over 8126,000 is indicated, but probably does not include all production. Much of the work has been done by lessees, and records may be incomplete.

The present lessees have spent approximately [illegible] during the past year rehabilitating the 1600 level and the inclined raise "D" to the 1200 level. This work was aided at one place claimed to be in the east end of the 1600 level, and also ore reported in the drift off the 1200 level south. The east end of the 1600 level was found filled and no line of ore raise was found in the 1200-level drift. In October 1951 the lessees had now climb the "D" raise from the 1200 level to see if any ore had been left on the 1000 level which on available maps was shown unstoped, but it was found that most of the ore had been stoped by earlier lessees. The 800 and 900 levels were inaccessible but apparently earlier lessees had unsuccessfully tried to drive a raise around a cave about 70 feet above the 1000 level.

In the early years zinc could not be marketed, such sphalerite is reported to have been left unmined. Such bodies of zinc ore are being sought by present lessees.

GEOLOGY

The Tamarack vein system, typical of many veins in the Coeur d' Alene mining district, is located along a series of relatively minor faults trending northwestward.

The veins are all in upper Prichard argillites and quartzite of the Belt series. Purple quartzite which overlies the Prichard is exposed near the portal of the 1400 level. A syncline, the axis of which trends northward, passes approximately through raise "B" so that in general the beds west of the "B" raise dip eastward and those east of the "B" raise dip westward. Other small folds are present in the vicinity of the inclined raise between 1400 and 1200 levels.

Principal ore minerals are galena and sphalerite, but on and above the 800 level appreciable amounts of cerussite are present. Copper minerals, such as chalcopyrite, malachite, chrysocolla, and azurite, are common but not as abundant as galena or sphalerite. Veins containing 10 inches of solid galena and sphalerite were seen and widths of solid galena up to seven or eight feet are reported to have been mined. Principal gangue minerals are quartz and siderite.

VEIN STRUCTURES

The veins in general strike northwestward and are either vertical or dip steeply northeastward. The ore shoots within the veins plunge 50 to 60 degrees southeastward, and the composite body of these ore shoots also plunges to the southeast.

Two parallel veins about 15 to 50 feet apart are exposed on the 800 level, and the southwestern of the two has been extensively mined below this level, but to what depth could not be determined. Transverse veins, trending eastward lie between the northwestward-trending veins.

On the 800 level this same pattern of two parallel veins with transverse veins between seems to be present, but the tunnel does not expose enough of the southwestern vein to allow certain determinations of its character. Most of the tunnel is thought to follow the northeastern vein.

Which of the two veins has been mined between the 800 and 1000 levels could not be determined, but from information on old maps, it is presumed to correspond to the southwestern vein.

The vein, exposed in and mined from the eastern end of the 1400 level has a position about 200 feet northeast of the projected planes of the veins exposed in the upper workings. A small vein

containing some lead and zinc is exposed in the drift on 1200 level south, and lies approximately in the projected plane of the veins exposed in the upper workings. A pod of zinc ore was mined from the 1200 level west about 100 feet northwest of the inclined raise, and lies approximately in the plane of the vein mined from the 1400 level.

The Barton and Atlantic drifts follow veins characteristically containing barren quartz and siderite, but some galena and sphalerite are reported to have been mined from the eastern portion of the Atlantic drift. The Atlantic drift may represent a continuation of the vein in the western end of the 1400 level.

The relations of the various veins in the mine is not certain. The continuity of mining in the workings above the 1000 level suggests that only one of the two parallel veins in the upper workings was mined, and little exploration for the companion vein was done. The downward projection of these two veins has not been found, even though the positions they would occupy if continuous have been crossed at several points on the 1400 level.

This apparent bottoming of the vein may be a result of faulting displacement or lack of mineralization. The vein in the western portion of the 1400 level has been thought by some to represent the faulted lower segment of the vein mined in the upper workings, but no fault was found in the present investigation on which there is any certainty of the necessary type and amount of displacement to accomplish such a displacement. The vein on the 1200 level south, although poor in ore minerals, suggests by its position in the general plane of the veins above that the upper structure is not offset but is continuous downward, although obscure in places because of sporadic mineralization.

Sparsely distributed malachite is associated with faults which cross the main tunnel between 400 and 550 feet from the portal.

SUGGESTIONS FOR EXPLORATION

The former production of the Omarch mine and the numerous vein structures, several of which have not been thoroughly tested, support a conclusion that there is a good possibility of finding more lead and zinc ore in the Omarch mine.

The best possibility for immediate returns seems to be in locating bodies of sphalerite which were bypassed in early mining. Although available stope maps have proven to be out of date in part, they cannot be ignored, and suggest promising blocks of ore between the 600 and 800 levels.

On the 800 and 1000 levels continuations of veins already exposed might prove to contain ore shoots (see detailed map). These can be prospected in most cases by long-hole drilling or where necessary by drifting along the structures.

Positions of possible veins above the 1400 level should be checked (see diagrammatic cross section), and the continuation of the vein below the eastern end of the 1400 drift should have good possibilities of containing ore. This vein may be continuous with the Atlantic vein. Prospecting of the possible connecting segment could be tested by diamond drilling from the section of the 1400 level, along the Green fault.

The possibility of the veins in the upper levels being continuous to but obscure on the 1400 level and therefore not recognized there crossed, calls for prospecting other sections of the projected position of the vein. The shoot-like character of the pods of ore unfortunately makes a small target for prospecting. A cross-cut aimed at prospecting a downward and westward continuation of the main vein system to the 1400 level would be worthwhile. There are very good possibilities of ore shoots along the main vein structure both to the northwest and to the southeast of the bodies already stoped.

In the block of ground between the Barton drift and the portal, the highly fractured rock, the presence of Burke quartzite and Prichard argillite faulted one against the other, and the known presence of at least some copper minerals, provides a geologic setting similar to others in the district which have been accompanied by good ore deposits. Although prospecting of this block would be somewhat of a wildcat proposition, in the final analysis, it should not be ignored.

In general the lenticular and shoot-like character of the ore bodies, and the presence of numerous parallel vein systems calls for a great many test holes, both long-hole and diamond drill, to thoroughly prospect the walls of all drifts in order not to miss good pods of ore which may be near, but unexposed in the drifts.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

August 23, 1951

Memorandum

To: Mr. Tom Lyon, Chairman
Coordinating Committee

From: A. E. Weissenborn, Executive Officer
DMA Field Team, Region II

Subject: Monarch Lease, Wallace, Idaho
Docket DMA 1878

Your referral for the Monarch Lease in the Couer d'Alene district, Idaho, was received in this office today.

We had previously retained one copy of the application here so we could examine the property, and Mr. Hobbs of the Geological Survey has attempted to make this examination. Unfortunately the significant part of the workings are still not accessible. Arrangements have been made with the company to examine these as soon as they are open, and we will report accordingly.

cc: U.S. Bur. Mines
Spokane, Wn.
Warren Hobbs

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 28 1951

AUG 23 1951

FILE COPY
SURNAME:

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

350
Gildersleeve (ETM)
McKnight
O'Leary
(For Mote)
Johnson
Lyon
Moon

AUG 20 1951

A.E.W.

Re: DMA 1878

Mr. W. J. Emacio, Partner
Monarch Lease
Wallace, Idaho

Dear Mr. Emacio:

Your application (DMA-1878) for exploration assistance has been reviewed by the Lead-Zinc Branch. It is being sent to Mr. A. E. Weissenborn, Executive Officer, DMA Field Team, South 157 Howard Street, Spokane, Washington, for further information and advice.

Sincerely yours,

SIGNED

BG 8/20

Tom Lyon, Director
Supply Division

BGildersleeve:jr
G: 8/14/51

Copies to: Files
~~A. B. Needham~~ (2) A.E. Weissenborn
Chief, Lead-Zinc Br.
E. T. McKnight
R. H. Mote
Reports and Records
Dir. Reading, Rm. 4212, GSA
Br. Reading, Rm. 4212, GSA

McKnight
OILERY
(FOR NOTE)

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

AUG 20 1951

A. E. Weissinbarr
South 157 Howard St.
Spokane, Washington

Dear Sir:

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

Docket No. DMA-1878

Commodity Lead Zinc

Applicant Mr. W. J. Emacio, Partner, Monarch Lease, Wallace, Idaho

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. DMA 1878

Commodity Lead Zinc

Total Amount $75,236.00

Govt. Participation 50%

1. Name and Address of Applicant W. J. Emacio, Partner, Monarch Lease, Wallace, Idaho

2. Location of Property Monarch Mine, 5 miles east of Murray, Idaho (Murray is 20 miles north of Wallace, Idaho)

3. Mineral or metal Lead Zinc 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

b) Poor

c) None

d) Don't know—needs field examination Needs examination

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 (question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No

Does the lease have sufficient time to run to cover a future productive period? Don't know

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? Don't know

b) MF-202 Yes

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 Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Good roads

d) Water (question 13)* Sufficient

e) Power (question 13)* Yes

Is a field check needed on any of these points? No

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 maps

~~Maps~~ or sketches with docket

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Don't know

If not, what part of it is?

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? Not Adequately

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? Yes

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

c) Is a field check needed? Yes, should be itemized

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

a) Is it applicable? 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? Yes

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

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? No

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes

b) Sufficient data? Not itemized

c) Reasonable? Don't know

d) Field check needed? Yes

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

(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? If field examination indicates approval, applicant should be requested to supply 6 copies of lease and 6 of Landlord's Subordination Agreement.

Reviewed by: B. Gildersleeve, G. S.

8/14/51

Date

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

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

AUG 20 1951

Mr. A. E. Wernimont
South 157 Howard St.
Spokane, Washington

Dear Sir:

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

Docket No. DMA-1878

Commodity Lead Zinc

Applicant Mr. W. J. Emacio, Partner, Monarch Lease, Wallace, Idaho

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

Very truly yours,

Tom Lyon
Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Olaf P. Rorr
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA 1878

Commodity Lead Zinc

Total Amount $75,236.00

Govt. Participation 50%

1. Name and Address of Applicant W. J. Emacio, Partner, Monarch Lease, Wallace, Idaho

2. Location of Property Monarch Mine, 5 miles east of Murray, Idaho (Murray is 20 miles north of Wallace, Idaho)

3. Mineral or metal Lead Zinc 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

b) Poor

c) None

d) Don't know—needs field examination Needs examination

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 (question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No

Does the lease have sufficient time to run to cover a future productive period? Don't know

*question numbers are those of MF-103

7. Are subordination agreements necessary? Yes

a) MF-201? Don't know

b) MF-202 Yes

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 Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Good roads

d) Water (question 13)* Sufficient

e) Power (question 13)* Yes

Is a field check needed on any of these points? No

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 maps

~~Maps~~ or sketches with docket

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Don't know

If not, what part of it is?

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? Not Adequately

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? Yes

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

c) Is a field check needed? Yes, should be itemized

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

a) Is it applicable? 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? Yes

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

c) Is the schedule excessive for the work proposed? No

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? No

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes

b) Sufficient data? Not itemized

c) Reasonable? Don't know

d) Field check needed? Yes

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

(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? If field examination indicates approval, applicant should be requested to supply 6 copies of lease and 6 of Landlord's Subordination Agreement.

Reviewed by: B. Gildersleeve, G. S.

8/14/51

Date

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

So. 157 Howard Street
Spokane 4, Washington

August 8, 1951

zinc - lead

D.MA. 1878

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, DMA

From: A. E. Weissenborn, Exec. Officer, DMA, Field Team, Region II

Subject: Monarch Lease, Shoshone County, Idaho

In forwarding application for an exploration contract on the Monarch Lease, three copies were sent to you and one was retained here to facilitate an early field examination. As you will note from the attached memo by Mr. S. Warren Hobbs of the Geological Survey, an attempt was made to examine the property, but that part of the property which is concerned in the proposed exploration is still inaccessible. A final examination will be made as soon as the company informs us that the mine is open for inspection.

A E Weissenborn
A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosure

AUG 14 1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Box 837
Mullan, Idaho

August 1, 1951

Memorandum

To: Mr. A. E. Weissenborn, Executive Officer, Field Team Region II

From: S. Warren Hobbs

Subject: Field examination of Monarch Lease, Shoshone County, Idaho.

As per your instructions received July 19, 1951, I contacted Mr. Emacio regarding an examination of the Monarch property. The company has been working all winter on reppening the main tunnel, and the last cave was reportedly cleaned out within the week preceding my inquiry. A visit was made to the property and the main adit as well as most of the drifts on the main level were accessible. Unfortunately all of the ore on this level has been mined and the heavily timbered drifts and stopes prevented any examination of the ore as such or any part of the mineralized structure.

The block of ground in which the company is interested lies between the main level and the surface of the ground, some 1400 feet above. Much of this ground is opened by raises from the main level or by shafts and tunnels from the surface, most of which are now in such bad shape that they are inaccessible. The company is currently installing new ladders and doing the necessary repair work to make a part of this area available for examination. When they notify us that this work is completed (reportedly in the next few weeks) we will proceed with the field examination of the property.

Sincerely yours,

S. Warren Hobbs

FILE COPY
SURNAME:

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

July 27, 1951

Mr. W. J. Emacio, Partner
Monarch Lease
Wallace, Idaho

Subject : DMA-1878
Re: Exploration Loan -
Monarch

My dear Mr. Emacio:

Receipt is acknowledged of your application and attachments of July 17, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1878 and referred to Mr. Thomas Billings, Chief, Lead-Zinc Branch on July 26, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1878.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

L. F. Strobel:jc
cc: Strobel
File
Billings
Lyon

Dma 1878

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane 4, Washington

July 18, 1951

Mr. L. F. Strobel
Executive Secretary
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Strobel:

I am enclosing herewith three copies of Form MF-100 and Form MF-103 submitted for exploration assistance on the Monarch Lease in the Coeur d'Alene district of Wallace, Idaho. The fourth copy of both MF-100 and MF-103 is being retained here in order to facilitate an early field examination by a Geological Survey crew which is now in the Coeur d'Alene district.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMA
Field Team, Region II

Enclosures

cc: U.S.B.M., Spokane
S. W. Hobbs

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 23 1951
LANDON F. STROBEL
Executive Secretary

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 1878

Date received 7-23-51

Participation

Monarch Lease
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

FILL IN THIS BLOCK

Date of application July 17, 1951

Estimated cost $75,236

Mineral or metal zinc-lead

Percentage of Government participation 50%

Location of mine near Murray, Idaho

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.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*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~~.

Monarch Lease
(Name of company)

By [signature]
(Signature of authorized official)

(Date)

Partner
(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

Monarch Lease - Wallace, Idaho
Form MF-103

1. The applicant, Monarch Lease, is a partnership.

2. Names and addresses of partners:

W. J. Enacio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonel	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

3. Not applicable

4. The business experience of the persons who will manage the project are as follows:

(a)(b) The managing partner is W. J. Enacio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Enacio has been associated with the mining industry for the past twenty years.

Mine manager is A. T. Slawson, formerly mine manager and superintendent of the Golconda Lead Mines, and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:

Orofino Lease
Edith Murray Lease
Crystal Lead Lease

A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.

William Mullen and James Doyle, operators and owners of the Bres Mining Equipment Company and various mining leases, are actively interested in this lease.

Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

5. The Monarch Lease is the lessee of the property.

6. Not applicable

7. Executed copy of the lease agreement is on file at the partnership office in the White and Bender Building, Wallace, Idaho.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The trammer is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation suppl ying the necessary voltage.
The cost of the power is the usual mining company rate.

14. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the pro perty is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air trammer
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

15. The ore could be trucked to a custom mill near Wallace, Idaho and the concentrates shipped by rail to lead and zinc smelters in Kellogg, Idaho.

16. History:
(a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
There has been considerable past production but the figures are not available.
(b) Properties to the north known as the Bear Top and Crofino and to the east known as the Black Horse have had considerable production records.
(c) There are no known available private reports.

17. Production:
The mine is not presently in production.

18. Ore or mineral reserves:
(a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
(b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.
(b)(2) An application for an RFC load in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percentage of lead.

19. Applicant knows of no questions not sufficiently brought out by the foregoing questions.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

The Exploration

20. The exploration will be conducted to search for ores of zinc and lead along the tabular vein type of deposits.

21. The proposed project will be to open all the levels above the 1400 foot level (adit tunnel level). The adit tunnel is opened 4100 feet in length and there are a series of two raises going from this level to the surface. There are considerable lead and zinc deposits on all levels and this project will be to prepare these levels for mining.
This work will consist of repairing raises, retimbering and extending drifts and preparing stopes for production and should be completed in twelve months.

22. The geological basis for the project is the fact that there is considerable deposits of high grade zinc ore in the upper levels that were not mined when the mine was operating in the 1905-1916 period when there was no market for zinc.
Geological maps and maps of proposed openings and other pertinent data are available for examination at the company's office in the White and Bender Building, Wallace, Idaho.

The Requirements and Costs

23. Estimated cost of the entire project in which the Government will participate:

		Cost per project
(a) Labor		
3 timbermen	($400 per month)	14,400
1 motorman	($400 per month)	4,800
1 yardman	($400 per month)	4,800
1 hoistman	($400 per month)	4,800
Social security taxes		1,296
Industrial insurance		1,440
Total		31,536
(b) Supervisors:		
1 foreman	($500 per month	6,000
1 engineer, part time	($100 per month)	1,200
Total supervisory labor		7,200
(c) Cost of necessary repairs to existing facilities, structures, and buildings		1,000
(d) Cost of necessary installation or construction of additional facilities, structures and buildings		5,000
(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		
3 drill machines		1,500
1 mucker		2,500
Diesel trammer		3,000
		7,000

Monarch Lease - Wallace, Idaho
Form MF-103

(f) Cost of rental for equipment which the operator proposes to rent — None

(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work ($1,000 per month) — 12,000

	per month	per project
compressor	600	7,200
air tramer	150	1,800
mucking machine	250	3,000
total	1,000	12,000

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

5000 feet of 12#, 16# and 20# rail	2,000
2000 feet of 2" water line	1,000
2000 feet of 2" air line	1,000
ties	500
timber	5,000
spikes, fish plates and miscellaneous supplies	1,000
miscellaneous expenses	1,000
	11,500

Total cost of materials and supplies for project — $75,236

24. Time schedule:

Month	Cost per month
1	$9,236
2	6,000
3	6,000
4	6,000
5	6,000
6	6,000
7	6,000
8	6,000
9	6,000
10	6,000
11	6,000
12	6,000
Total	$75,236

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

Monarch Lease
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA (see attached)

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.

MONARCH LEASE
Wallace, Idaho

Form MF-100

1. Materials produced:
   (a) Chief products - zinc, lead ores
   (b) Byproduct - silver ores

2. Monarch mine:
   (a) Linear feet of shafts - 80 feet
   (b) Linear feet of drifts and crosscuts - 5000 feet
   (c) Linear feet of tunnels or adits - 4100 feet
   (d) Linear feet of other mine openings - 2000 feet

   Mine is not flooded at present time. There are no pumping problems.

3. For the Monarch mine the following applies:
   (a) Mine is located five miles east of Murray, Idaho which is approximately twenty miles from Wallace, Idaho, the nearest shipping point.
   (b) Summit Mining District
   (c) Not known
   (d) Shoshone County, Idaho

4. (a) Property is in operation by the Monarch Lease, a partnership.
   (b) Operating the pro perty as lessee.

5. New partnership started rehabilitation of mine on September 27, 1950. Actual production of ore should be in process by October 1, 1951.

6. Experience of operators:
   (a)(b) The managing partner is W. J. Emacio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Emacio has been associated with the mining industry for the past twenty years.
   Mine manager is A. T. Slauson, formerly mine manager and superintendent of the Golconda Lead Mines and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:
   Orofino Lease
   Edith Murray Lease
   Crystal Lead Lease
   A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.
   William Mullen and James Doyle operators and owners of the Dres Mining Equipment Company and various mining leases are actively interested in this lease.
   Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

(Continued)

MONARCH LEASE
Wallace, Idaho

Form MF-100

7. History:
   (a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
   There has been considerable past production but the figures are not available.
   (b) Properties to the north known as the Bear Top and Orofino and to the east known as the Black Horse have had considerable production records.
   (c) There are no known available private reports.

8. Name and Address of Partners:

W. J. Emacio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonol	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

9. Not applicable

10. The mine had no production during the years 1948, 1949 and 1950

11. The mine is presently being rehabilitated and the old workings are being readied for production. It will be possible to produce 75 to 100 tons per day.

12. Ore or mineral reserves:
   (a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
   (b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.

   (b)(2) An application for an RFC loan in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percantage of lead.

(Continued)

MONARCH LEASE
Wallace, Idaho

Form MF-100

13. Access roads:
The mine is five miles east of Murray which is twenty miles north of Wallace, Idaho. The entire distance is in graded dirt road following water level and is accessable the year round. The road is maintained by Shoshone County road crews.

14. Water supply:
At the foot of the dump is a creek which will supply necessary water for year round operations. There is also a three inch stream running continuously out of the mine.

15. Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The trammer is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation supplying the necessary voltage.
The cost of the power is the usual mining company rate.

16. Labor:
The number and classes of men presently employed:
2 timbermen
1 mucker
1 motorman
1 yardman
These men are on one shift.

17. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the property is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air trammer
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

(*b*) If deposit is o[illegible] than [illegible]cer:

(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.

Monarch Lease
(Name of company)

By [illegible]
(Signature of authorized official)

(Date)

Partner
(Title)

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

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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1878

Date received 7-23-51

Participation

Monarch Lease
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

FILL IN THIS BLOCK

Date of application July 17, 1951

Estimated cost $75,236

Mineral or metal zinc-lead

Percentage of Government participation 50%

Location of mine near Murray, Idaho

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.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*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.

Monarch Lease
(Name of company)

By [signature]
(Signature of authorized official)

(Date)

Partner
(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

Monarch Lease - Wallace, Idaho
Form MF-103

1. The applicant, Monarch Lease, is a partnership.

2. Names and addresses of partners:

W. J. Emacio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonel	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

3. Not applicable

4. The business experience of the persons who will manage the project are as follows:

(a)(b) The managing partner is W. J. Emacio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Emacio has been associated with the mining industry for the past twenty years.

Mine manager is A. T. Slawson, formerly mine manager and superintendent of the Golconda Lead Mines, and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:

Orofino Lease
Edith Murray Lease
Crystal Lead Lease

A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.

William Mullen and James Doyle, operators and owners of the Bres Mining Equipment Company and various mining leases, are actively interested in this lease.

Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

5. The Monarch Lease is the lessee of the property.

6. Not applicable

7. Executed copy of the lease agreement is on file at the partnership office in the White and Bonder Building, Wallace, Idaho.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

8. A financial statement is not available but the present partnership has expended approximately $40,000 in rehabilitating the mine in preparation for production.

9. The applicant is prepared to invest fifty (50) per cent of the cost of the project or approximately $37,618 which is sufficient to pay our part of the project in accordance with the regulation on Government participation (Section 9 of Mineral Order).

The Property

10. Real property involved in exploration project:
    (a) The Monarch Lease has under lease thirty-three unpatented and nine patented mining claims.
    (b) Legal description of the exact area upon which the exploration project is to be conducted is on the following claims:
    Rainbow, Barton, Codfish, Davis, Greenhorn, Monarch, Monarch No. 2, Pacific, Hidden Treasure, Manitoba, Atlantic, Greyhound No. 2, Montauk, Lucky Joe, Lilans, Sunnyside, Leonora, Lincoln, Hay, Fairb anks, Derby, Contra Costs, Addenda, Roosevelt, Martin, Ione, Chaptain, Big Sam, Kiddrick, Katy and Rosa, Deadwood, Greenwood, Taft, and Franklin lode mining claims situated in Summit Mining District, Shoshone County, Idaho;
    and
    the Galena, Galena No. 2, Juno, Itaska, and Ione placer claims
    and
    that portion of the Viola placer claim, United States Mineral Survey No. 2552, situated in Summit Mining District, Shoshone County, Idaho, and described as follows, to-wit;
    Beginning at a point "A" on the southerly boundary line of the Viola placer, which point is south 82° 17' west from corner post No. 1, 662.3 feet; thence along this line 1273.1 feet to corner post No. 2; thence north 5° 42' west 271.08 feet to corner post No. 3; thence north 75° 03' east 482.1 feet to corner post No. 4; thence north 10° 20' west 131.82 feet to corner post No. 5; thence north 79° 16' east 709.9 feet to point "B" on the northerly line of said Viola Plac er (which point "B" is 663.2 feet south 79° 16' west from corner post No. 6 of said placer); thence south 16° 28' east 507.1 feet to point "A" or the place of beginning; subject to the right-of-way of the Oregon-Washington Railroad & Navigation Company

11. The name has always been the Monarch mine.

12. The Monarch mine is five miles east of Murray, Idaho which is twenty miles north of Wallace, Idaho the nearest shipping point. All roads are graded dirt roads in excellent condition an available for year round operation.

13. Water supply:
    At the foot of the dump is a creek which will supply necessary water for year round operations. There is also a three inch stream running continuously out of the mine.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The trammer is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation suppl ying the necessary voltage.
The cost of the power is the usual mining company rate.

14. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the pro perty is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air trammer
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

15. The ore could be trucked to a custom mill near Wallace, Idaho and the concentrates shipped by rail to lead and zinc smelters in Kellogg, Idaho.

16. History:
(a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
There has been considerable past production but the figures are not available.
(b) Properties to the north known as the Bear Top and Orofino and to the east known as the Black Horse have had considerable production records.
(c) There are no known available private reports.

17. Production:
The mine is not presently in production.

18. Ore or mineral reserves:
(a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
(b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.
(b)(2) An application for an RFC load in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percentage of lead.

19. Applicant knows of no questions not sufficiently brought out by the foregoing questions.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

The Exploration

20. The exploration will be conducted to search for ores of zinc and lead along the tabular vein type of deposits.

21. The proposed project will be to open all the levels above the 1400 foot level (adit tunnel level). The adit tunnel is opened 4100 feet in length and there are a series of two raises going from this level to the surface. There are considerable lead and zinc deposits on all levels and this project will be to prepare these levels for mining.
This work will consist of repairing raises, retimbering and extending drifts and preparing stopes for production and should be completed in twelve months.

22. The geological basis for the project is the fact that there is considerable deposits of high grade zinc ore in the upper levels that were not mined when the mine was operating in the 1905-1916 period when there was no market for zinc.
Geological maps and maps of proposed openings and other pertinent data are available for examination at the company's office in the White and Bender Building, Wallace, Idaho.

The Requirements and Costs

23. Estimated cost of the entire project in which the Government will participate:

		Cost per project
(a) Labor		
3 timbermen	($400 per month)	14,400
1 motorman	($400 per month)	4,800
1 yardman	($400 per month)	4,800
1 hoistman	($400 per month)	4,800
Social security taxes		1,296
Industrial insurance		1,440
Total		31,536
(b) Supervisors:		
1 foreman	($500 per month	6,000
1 engineer, part time	($100 per month)	1,200
Total supervisory labor		7,200
(c) Cost of necessary repairs to existing facilities, structures, and buildings		1,000
(d) Cost of necessary installation or construction of additional facilities, structures and buildings		5,000
(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		
3 drill machines		1,500
1 mucker		2,500
Diesel trammer		3,000
		7,000

Monarch Lease - Wallace, Idaho
Form MF-103

(f) Cost of rental for equipment which the operator proposes to rent — None

(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work ($1,000 per month) — 12,000

	per month	per project
compressor	600	7,200
air trammer	150	1,800
mucking machine	250	3,000
total	1,000	12,000

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

5000 feet of 12#, 16# and 20# rail	2,000
2000 feet of 2" water line	1,000
2000 feet of 2" air line	1,000
ties	500
timber	5,000
spikes, fish plates and miscellaneous supplies	1,000
miscellaneous expenses	1,000
	11,500

Total cost of materials and supplies for project — $75,236

24. Time schedule:

Month	Cost per month
1	$9,236
2	6,000
3	6,000
4	6,000
5	6,000
6	6,000
7	6,000
8	6,000
9	6,000
10	6,000
11	6,000
12	6,000
Total	$75,236

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

Monarch Lease
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA (see attached)

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.

MONARCH LEASE
Wallace, Idaho

Form MF-100

1. Materials produced:
   (a) Chief products - zinc, lead ores
   (b) Byproduct - silver ores

2. Monarch mine:
   (a) Linear feet of shafts - 80 feet
   (b) Linear feet of drifts and crosscuts - 5000 feet
   (c) Linear feet of tunnels or adits - 4100 feet
   (d) Linear feet of other mine openings - 2000 feet

   Mine is not flooded at present time. There are no pumping problems.

3. For the Monarch mine the following applies:
   (a) Mine is located five miles east of Murray, Idaho which is approximately twenty miles from Wallace, Idaho, the nearest shipping point.
   (b) Summit Mining District
   (c) Not known
   (d) Shoshone County, Idaho

4. (a) Property is in operation by the Monarch Lease, a partnership.
   (b) Operating the pro perty as lessee.

5. New partnership started rehabilitation of mine on September 27, 1950. Actual production of ore should be in process by October 1, 1951.

6. Experience of operators:
   (a)(b) The managing partner is W. J. Emacio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Emacio has been associated with the mining industry for the past twenty years.
   Mine manager is A. T. Slawson, formerly mine manager and superintendent of the Golconda Lead Mines and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:
   Orofino Lease
   Edith Murray Lease
   Crystal Lead Lease
   A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.
   William Mullen and James Doyle operators and owners of the Bres Mining Equipment Company and various mining leases are actively interested in this lease.
   Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

(Continued)

MONARCH LEASE
Wallace, Idaho

Form MF-100

7. History:
   (a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
   There has been considerable past production but the figures are not available.
   (b) Properties to the north known as the Bear Top and Orofino and to the east known as the Black Horse have had considerable production records.
   (c) There are no known available private reports.

8. Name and Address of Partners:

W. J. Emacio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonel	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

9. Not applicable

10. The mine had no production during the years 1948, 1949 and 1950

11. The mine is presently being rehabilitated and the old workings are being readied for production. It will be possible to produce 75 to 100 tons per day.

12. Ore or mineral reserves:
   (a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
   (b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.

   (b)(2) An application for an RFC loan in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percantage of lead.

(Continued)

MONARCH LEASE
Wallace, Idaho

Form MF-100

13. Access roads:
The mine is five miles east of Murray which is twenty miles north of Wallace, Idaho. The entire distance is in graded dirt road following water level and is accessable the year round. The road is maintained by Shoshone County road crews.

14. Water supply:
At the foot of the dump is a creek which will supply necessary water for year round operations. There is also a three inch stream running continuously out of the mine.

15. Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The trammer is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation supplying the necessary voltage.
The cost of the power is the usual mining company rate.

16. Labor:
The number and classes of men presently employed:
2 timbermen
1 mucker
1 motorman
1 yardman
These men are on one shift.

17. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the property is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air trammer
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

(*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.

Monarch Lease
(Name of company)

By [signature]
(Signature of authorized official)

(Date)

Partner
(Title)

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

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

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1878

Date received 7-23-51

Participation

Monarch Lease
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

FILL IN THIS BLOCK

Date of application July 17, 1951

Estimated cost $75,236

Mineral or metal zinc-lead

Percentage of Government participation 50%

Location of mine near Murray, Idaho

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.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*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.

Monarch Lease
(Name of company)

By [signature]
(Signature of authorized official)

(Date)

Partner
(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

Monarch Lease - Wallace, Idaho
Form MF-103

1. The applicant, Monarch Lease, is a partnership.

2. Names and addresses of partners:

W. J. Emacio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonel	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

3. Not applicable

4. The business experience of the persons who will manage the project are as follows:

(a)(b) The managing partner is W. J. Emacio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Emacio has been associated with the mining industry for the past twenty years.

Mine manager is A. T. Slawson, formerly mine manager and superintendent of the Golconda Lead Mines, and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:

Orofino Lease
Edith Murray Lease
Crystal Lead Lease

A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.

William Mullen and James Doyle, operators and owners of the Bres Mining Equipment Company and various mining leases, are actively interested in this lease.

Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

5. The Monarch Lease is the lessee of the property.

6. Not applicable

7. Executed copy of the lease agreement is on file at the partnership office in the White and Bender Building, Wallace, Idaho.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

8. A financial statement is not available but the present partnership has expended approximately $40,000 in rehabilitating the mine in preparation for production.

9. The applicant is prepared to invest fifty (50) per cent of the cost of the project or approximately $37,618 which is sufficient to pay our part of the project in accordance with the regulation on Government participation (Section 9 of Mineral Order).

The Property

10. Real property involved in exploration project:
    (a) The Monarch Lease has under lease thirty-three unpatented and nine patented mining claims.
    (b) Legal description of the exact area upon which the exploration project is to be conducted is on the following claims:
    Rainbow, Barton, Codfish, Davis, Greenhorn, Monarch, Monarch No. 2, Pacific, Hidden Treasure, Manitoba, Atlantic, Greyhound No. 2, Montauk, Lucky Joe, Lilans, Sunnyside, Leonora, Lincoln, Hay, Fairb anks, Derby, Contra Costs, Addenda, Roosevelt, Martin, Ione, Chaptain, Big Sam, Kiddrick, Katy and Rosa, Deadwood, Greenwood, Taft, and Franklin lode mining claims situated in Summit Mining District, Shoshone County, Idaho;
    and
    the Galena, Galena No. 2, Juno, Itaska, and Ione placer claims
    and
    that portion of the Viola placer claim, United States Mineral Survey No. 2552, situated in Summit Mining District, Shoshone County, Idaho, and described as follows, to-wit;
    Beginning at a point "A" on the southerly boundary line of the Viola placer, which point is south 82° 17' west from corner post No. 1, 662.3 feet; thence along this line 1273.1 feet to corner post No. 2; thence north 5° 42' west 271.08 feet to corner post No. 3; thence north 75° 03' east 482.1 feet to corner post No. 4; thence north 10° 20' west 131.82 feet to corner post No. 5; thence north 79° 16' east 709.9 feet to point "B" on the northerly line of said Viola Plac er (which point "B" is 663.2 feet south 79° 16' west from corner post No. 6 of said placer); thence south 16° 28' east 507.1 feet to point "A" or the place of beginning; subject to the right-of-way of the Oregon-Washington Railroad & Navigation Company

11. The name has always been the Monarch mine.

12. The Monarch mine is five miles east of Murray, Idaho which is twenty miles north of Wallace, Idaho the nearest shipping point. All roads are graded dirt roads in excellent condition an available for year round operation.

13. Water supply:
    At the foot of the dump is a creek which will supply necessary water for year round operations. There is also a three inch stream running continuously out of the mine.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The trammer is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation suppl ying the necessary voltage.
The cost of the power is the usual mining company rate.

14. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the pro perty is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air trammer
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

15. The ore could be trucked to a custom mill near Wallace, Idaho and the concentrates shipped by rail to lead and zinc smelters in Kellogg, Idaho.

16. History:
(a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
There has been considerable past production but the figures are not available.
(b) Properties to the north known as the Bear Top and Orofino and to the east known as the Black Horse have had considerable production records.
(c) There are no known available private reports.

17. Production:
The mine is not presently in production.

18. Ore or mineral reserves:
(a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
(b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.
(b)(2) An application for an RFC load in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percentage of lead.

19. Applicant knows of no questions not sufficiently brought out by the foregoing questions.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

The Exploration

20. The exploration will be conducted to search for ores of zinc and lead along the tabular vein type of deposits.

21. The proposed project will be to open all the levels above the 1400 foot level (adit tunnel level). The adit tunnel is opened 4100 feet in length and there are a series of two raises going from this level to the surface. There are considerable lead and zinc deposits on all levels and this project will be to prepare these levels for mining.
This work will consist of repairing raises, retimbering and extending drifts and preparing stopes for production and should be completed in twelve months.

22. The geological basis for the project is the fact that there is considerable deposits of high grade zinc ore in the upper levels that were not mined when the mine was operating in the 1905-1916 period when there was no market for zinc.
Geological maps and maps of proposed openings and other pertinent data are available for examination at the company's office in the White and Bender Building, Wallace, Idaho.

The Requirements and Costs

23. Estimated cost of the entire project in which the Government will participate:

		Cost per project
(a) Labor		
3 timbermen	($400 per month)	14,400
1 motorman	($400 per month)	4,800
1 yardman	($400 per month)	4,800
1 hoistman	($400 per month)	4,800
Social security taxes		1,296
Industrial insurance		1,440
Total		31,536
(b) Supervisors:		
1 foreman	($500 per month	6,000
1 engineer, part time	($100 per month)	1,200
Total supervisory labor		7,200
(c) Cost of necessary repairs to existing facilities, structures, and buildings		1,000
(d) Cost of necessary installation or construction of additional facilities, structures and buildings		5,000
(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		
3 drill machines		1,500
1 mucker		2,500
Diesel trammer		3,000
		7,000

Monarch Lease - Wallace, Idaho
Form MF-103

(f) Cost of rental for equipment which the operator proposes to rent — None

(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work ($1,000 per month) — 12,000

	per month	per project
compressor	600	7,200
air trammer	150	1,800
mucking machine	250	3,000
total	1,000	12,000

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

5000 feet of 12#, 16# and 20# rail	2,000
2000 feet of 2" water line	1,000
2000 feet of 2" air line	1,000
ties	500
timber	5,000
spikes, fish plates and miscellaneous supplies	1,000
miscellaneous expenses	1,000
	11,500

Total cost of materials and supplies for project — $75,236

24. Time schedule:

Month	Cost per month
1	$9,236
2	6,000
3	6,000
4	6,000
5	6,000
6	6,000
7	6,000
8	6,000
9	6,000
10	6,000
11	6,000
12	6,000
Total	$75,236

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

Monarch Lease
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA (see attached)

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.

MONARCH LEASE
Wallace, Idaho

Form MF-100

---

1. Materials produced:
   (a) Chief products - zinc, lead ores
   (b) Byproduct - silver ores

2. Monarch mine:
   (a) Linear feet of shafts - 80 feet
   (b) Linear feet of drifts and crosscuts - 5000 feet
   (c) Linear feet of tunnels or adits - 4100 feet
   (d) Linear feet of other mine openings - 2000 feet

   Mine is not flooded at present time. There are no pumping problems.

3. For the Monarch mine the following applies:
   (a) Mine is located five miles east of Murray, Idaho which is approximately twenty miles from Wallace, Idaho, the nearest shipping point.
   (b) Summit Mining District
   (c) Not known
   (d) Shoshone County, Idaho

4. (a) Property is in operation by the Monarch Lease, a partnership.
   (b) Operating the pro perty as lessee.

5. New partnership started rehabilitation of mine on September 27, 1950. Actual production of ore should be in process by October 1, 1951.

6. Experience of operators:
   (a)(b) The managing partner is W. J. Emacio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Emacio has been associated with the mining industry for the past twenty years.
   Mine manager is A. T. Slawson, formerly mine manager and superintendent of the Golconda Lead Mines and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:
   Orofino Lease
   Edith Murray Lease
   Crystal Lead Lease
   A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.
   William Mullen and James Doyle operators and owners of the Bres Mining Equipment Company and various mining leases are actively interested in this lease.
   Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

(Continued)

MONARCH LEASE
Wallace, Idaho

Form MF-100

7. History:
   (a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
   There has been considerable past production but the figures are not available.
   (b) Properties to the north known as the Bear Top and Orofino and to the east known as the Black Horse have had considerable production records.
   (c) There are no known available private reports.

8. Name and Address of Partners:

W. J. Emacio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonel	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

9. Not applicable

10. The mine had no production during the years 1948, 1949 and 1950

11. The mine is presently being rehabilitated and the old workings are being readied for production. It will be possible to produce 75 to 100 tons per day.

12. Ore or mineral reserves:
   (a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
   (b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.

   (b)(2) An application for an RFC loan in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percantage of lead.

(Continued)

MONARCH LEASE
Wallace, Idaho

Form MF-100

---

13. Access roads:
The mine is five miles east of Murray which is twenty miles north of Wallace, Idaho. The entire distance is in graded dirt road following water level and is accessable the year round. The road is maintained by Shoshone County road crews.

14. Water supply:
At the foot of the dump is a creek which will supply necessary water for year round operations. There is also a three inch stream running continuously out of the mine.

15. Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The trammer is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation supplying the necessary voltage.
The cost of the power is the usual mining company rate.

16. Labor:
The number and classes of men presently employed:
2 timbermen
1 mucker
1 motorman
1 yardman
These men are on one shift.

17. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the property is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air trammer
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

(*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.

Monarch Lease
(Name of company)

By [signature]
(Signature of authorized official)

(Date)

Partner
(Title)

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

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

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. _____

Date received _____

Monarch Lesso
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA (see attached)

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.

MONARCH LEASE
Wallace, Idaho

Form MF-100

1. Materials produced:
   (a) Chief products - zinc, lead ores
   (b) Byproduct - silver ores

2. Monarch mine:
   (a) Linear feet of shafts - 80 feet
   (b) Linear feet of drifts and crosscuts - 5000 feet
   (c) Linear feet of tunnels or adits - 4100 feet
   (d) Linear feet of other mine openings - 2000 feet

   Mine is not flooded at present time. There are no pumping problems.

3. For the Monarch mine the following applies:
   (a) Mine is located five miles east of Murray, Idaho which is approximately twenty miles from Wallace, Idaho, the nearest shipping point.
   (b) Summit Mining District
   (c) Not known
   (d) Shoshone County, Idaho

4. (a) Property is in operation by the Monarch Lease, a partnership.
   (b) Operating the pro perty as lessee.

5. New partnership started rehabilitation of mine on September 27, 1950. Actual production of ore should be in process by October 1, 1951.

6. Experience of operators:
   (a)(b) The managing partner is W. J. Emacio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Emacio has been associated with the mining industry for the past twenty years.
   Mine manager is A. T. Slawson, formerly mine manager and superintendent of the Golconda Lead Mines and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:
   Orofino Lease
   Edith Murray Lease
   Crystal Lead Lease
   A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.
   William Mullen and James Doyle operators and owners of the Bres Mining Equipment Company and various mining leases are actively interested in this lease.
   Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

(Continued)

HOMESTEAD MINES
Wallace, Idaho

Form MF-100

7. History:
   (a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
   There has been considerable past production but the figures are not available.
   (b) Properties to the north known as the Bear Top and Orofino and to the east known as the Black Horse have had considerable production records.
   (c) There are no known available private reports.

8. Name and Address of Partners:

W. J. Emacio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonel	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

9. Not applicable

10. The mine had no production during the years 1948, 1949 and 1950

11. The mine is presently being rehabilitated and the old workings are being readied for production. It will be possible to produce 75 to 100 tons per day.

12. Ore or mineral reserves:
   (a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
   (b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.

   (b)(2) An application for an RFC loan in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percentage of lead.

(Continued)

MONARCH LEASE
Wallace, Idaho

Form MF-100

13. Access roads:
The mine is five miles east of Murray which is twenty miles north of Wallace, Idaho. The entire distance is in graded dirt road following water level and is accessable the year round. The road is maintained by Shoshone County road crews.

14. Water supply:
At the foot of the dump is a creek which will supply necessary water for year round operations. There is also a three inch stream running continuously out of the mine.

15. Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The trammer is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation supplying the necessary voltage.
The cost of the power is the usual mining company rate.

16. Labor:
The number and classes of men presently employed:
2 timbermen
1 mucker
1 motorman
1 yardman
These men are on one shift.

17. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the property is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air trammer
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

18. There are no particular conditions or circumstances affecting our operations that are not described above.

(*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.

Monarch Lease
(Name of company)

By [signature]
(Signature of authorized official)

Partner
(Title)

(Date)

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. dmea 1878

Date received 7-23-51

Participation

Monarch Lease
Wallace, Idaho

Name and address of applicant

Date July 17, 1951

FILL IN THIS BLOCK

Date of application July 17, 1951

Estimated cost $75,236

Mineral or metal zinc-lead

Percentage of Government participation 50%

Location of mine near Murray, Idaho

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.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

*16. History:

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

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

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

*17. Production:

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

(*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.

Monarch Lease
(Name of company)

By [signature]
(Signature of authorized official)

(Date)

Partner
(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

Monarch Lease - Wallace, Idaho
Form MF-103

1. The applicant, Monarch Lease, is a partnership.

2. Names and addresses of partners:

U. J. Bracio	Wallace, Idaho
H. F. Magnuson	Wallace, Idaho
A. H. Featherstone	Wallace, Idaho
William Mullen	Wallace, Idaho
James Doyle	Wallace, Idaho
Robert E. McDonel	Wallace, Idaho
John Featherstone	Lloyd, Montana
A. T. Slawson	Murray, Idaho
A. F. McFee	Wallace, Idaho
Pete Caron	Wallace, Idaho
Harold Drummond	Kellogg, Idaho
Francis Hull	Wallace, Idaho
John O. White	Kellogg, Idaho
John C. White	Wallace, Idaho

3. Not applicable

4. The business experience of the persons who will manage the project are as follows:

(a)(b) The managing partner is U. J. Bracio who is presently secretary-treasurer and director of Lucky Friday Silver-Lead Mines Company. Mr. Bracio has been associated with the mining industry for the past twenty years.

Mine manager is A. T. Slawson, formerly mine manager and superintendent of the Golconda Lead Mines, and presently manager and vice-president of the Edith Murray Mining Company. He is also a partner in the following leases:

Orofino Lease
Edith Murray Lease
Crystal Lead Lease

A. H. Featherstone and John Featherstone who are also partners are actively associated with the management of the Lucky Friday, Golconda and various other mining enterprises.

William Mullen and James Doyle, operators and owners of the Bres Mining Equipment Company and various mining leases, are actively interested in this lease.

Harry F. Magnuson, Certified Public Accountant and partner in the firm of Randall & Magnuson and associated with several mining companies, is interested in the Monarch Lease.

5. The Monarch Lease is the lessee of the property.

6. Not applicable

7. Executed copy of the lease agreement is on file at the partnership office in the White and Bender Building, Wallace, Idaho.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

8. A financial statement is not available but the present partnership has expended approximately $40,000 in rehabilitating the mine in preparation for production.

9. The applicant is prepared to invest fifty (50) per cent of the cost of the project or approximately $37,[illegible] which is sufficient to pay our part of the project in accordance with the regulation on Government participation (Section 9 of Mineral Order).

The Property

10. Real property involved in exploration project:
(a) The Monarch Lease has under lease thirty-three unpatented and nine patented mining claims.
(b) Legal description of the exact area upon which the exploration project is to be conducted is on the following claims:
Rainbow, Darton, Codfish, Davis, Greenhorn, Monarch, Monarch No. 2, Pacific, Hidden Treasure, Manitoba, Atlantic, Greyhound No. 2, Montauk, Lucky Joe, Lilans, Sunnyside, Leonora, Lincoln, May, Fairb anks, Derby, Contra Costa, Addenda, Roosevelt, Martin, Ione, Chaptain, Big Sam, Kiddrick, Katy and Rosa, Deadwood, Greenwood, Taft, and Franklin lode mining claims situated in Summit Mining District, Shoshone County, Idaho;
and
the Galena, Galena No. 2, Juno, Itacka, and Ione placer claims
and
that portion of the Viola placer claim, United States Mineral Survey No. 2552, situated in Summit Mining District, Shoshone County, Idaho, and described as follows, to-wit;
Beginning at a point "A" on the southerly boundary line of the Viola placer, which point is south 82° 17' west from corner post No. 1, 662.3 feet; thence along this line 1273.1 feet to corner post No. 2; thence north 5° 42' west 271.08 feet to corner post No. 3; thence north 75° 03' east 4[illegible]2.1 feet to corner post No. 4; thence north 10° 20' west 131.82 feet to corner post No. 5; thence north 79° 16' east 709.9 feet to point "B" on the northerly line of said Viola Placer (which point "B" is 663.2 feet south 79° 16' west from corner post No. 6 of said placer); thence south 16° 2[illegible]' east 507.1 feet to point "A" or the place of beginning; subject to the right-of-way of the Oregon-Washington Railroad & Navigation Company

11. The name has always been the Monarch mine.

12. The Monarch mine is five miles east of Murray, Idaho which is twenty miles north of Wallace, Idaho the nearest shipping point. All roads are graded dirt roads in excellent condition an available for year round operation.

13. Water supply:
At the foot of the dump is a creek which will supply necessary water for year round operations. There is also a three inch stream running continuously out of the mine.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

Power:
At the present time a 650 cubic foot Ingersol-Rand 150 Horse Power motor semi-diesel compressor supplies the power. The tramper is operated on compressed air.
The Washington Water Power is presently making surveys to put a power line across our property to the Black Horse mine approximately one-mile east of the Monarch. We will be furnished the necessary power for lights and small equipment at the present time at no charge than for the power consumed.
When we are ready the Washington Water Power Company will install a substation supplying the necessary voltage.
The cost of the power is the usual mining company rate.

14. Equipment and facilities:
There is at present a frame dry and bunkhouse combined. In addition, there is a frame compressor house and garage and machine shop all in good condition.
On the pro perty is the following equipment:
1 650 cubic foot Ingersol-Rand Compressor
1 Air tramper
8 mine cars - 24" gauge
1 mucker
Necessary small equipment for an operation of this size.

15. The ore could be trucked to a custom mill near Wallace, Idaho and the concentrates shipped by rail to lead and zinc smelters in Kellogg, Idaho.

16. History:
(a) The property is developed by tunnel No. 1 and No. 2 and No. 3 which is the main adit. This main adit is 1400 feet in length. The mine operated continuously from 1905 to 1916. The suspension of operations was due to low metal prices as well as the limited market for zinc which is the predominating metal.
There has been considerable past production but the figures are not available.
(b) Properties to the north known as the Bear Top and Trolley and to the east known as the Black Horse have had considerable production records.
(c) There are no known available private reports.

17. Production:
The mine is not presently in production.

18. Ore or mineral reserves:
(a) The mineral deposit consists of shoots of lead-zinc in a vein-type deposit.
(b)(1) Maps and assay data are available and will be supplied upon request. They are located at the company's office in the White and Bender Building, Wallace, Idaho.
(b)(2) An application for an RFC load in 1943 indicated ore reserves of 75,000 tons of zinc ore averaging in excess of 20% zinc per ton with percentage of lead.

19. Applicant knows of no questions not sufficiently brought out by the foregoing questions.

(Continued)

Monarch Lease - Wallace, Idaho
Form MF-103

The Exploration

20. The exploration will be conducted to search for ores of zinc and lead along the tabular vein type of deposits.

21. The proposed project will be to open all the levels above the 1400 foot level (adit tunnel level). The adit tunnel is opened 4100 feet in length and there are a series of two raises going from this level to the surface. There are considerable lead and zinc deposits on all levels and this project will be to prepare these levels for mining.
This work will consist of repairing raises, retimbering and extending drifts and preparing stopes for production and should be completed in twelve months.

22. The geological basis for the project is the fact that there is considerable deposits of high grade zinc ore in the upper levels that were not mined when the mine was operating in the 1905-1916 period when there was no market for zinc.
Geological maps and maps of proposed openings and other pertinent data are available for examination at the company's office in the White and Bender Building, Wallace, Idaho.

The Requirements and Costs

23. Estimated cost of the entire project in which the Government will participate:

		Cost per project
(a) Labor		
3 timbermen	($400 per month)	14,400
1 motorman	($400 per month)	4,800
1 yardman	($400 per month)	4,800
1 hoistman	($400 per month)	4,800
Social security taxes		2,296
Industrial insurance		1,440
Total		32,536
(b) Supervisors:		
1 foreman	($500 per month	6,000
1 engineer, part time	($100 per month)	1,200
Total supervisory labor		7,200
(c) Cost of necessary repairs to existing facilities, structures, and buildings		1,000
(d) Cost of necessary installation or construction of additional facilities, structures and buildings		5,000
(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		
3 drill machines		1,500
1 mucker		2,500
Diesel tramor		3,000
		7,000

Monarch Lease - Wallace, Idaho
Form IF-103

(f) Cost of rental for equipment which the operator proposes to rent — None

(g) Rental value of items of equipment which the operator now owns and which will be devoted to the work ($1,000 per month) — 12,000

	per month	per project
compressor	600	7,200
air tramer	150	1,800
mucking machine	250	3,000
total	1,000	12,000

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

5000 feet of 12#, 16# and 20# rail	2,000
2000 feet of 2" water line	1,000
2000 feet of 2" air line	1,000
ties	500
timber	5,000
splices, fish plates and miscellaneous supplies	1,000
miscellaneous expenses	1,000
	11,500

Total cost of materials and supplies for project — $75,236

24. Time schedule:

Month	Cost per month
1	$9,236
2	6,000
3	6,000
4	6,000
5	6,000
6	6,000
7	6,000
8	6,000
9	6,000
10	6,000
11	6,000
12	6,000
Total	$75,236

MF-200
(June 1951)

Docket No. DMA 1878
Commodity Zn, Pb

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this ..... day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and[2] Monarch Lease, Wallace, Idaho

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 Idaho, County of Shoshone described as follows:[3] Monarch Mine, 5 miles east of Murray, Idaho, in Summit Mining Dist. (See appended legal description)

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

(*a*) ~~That he is in possession, and that the property is subject only to the following [illegible] of which the subordination agreement of the holder is attached.~~

Owners Consent to Lein attached hereto.

(*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~~ on April 1, 1952 ~~[illegible]~~ shall commence work on a project of exploration for[5] zinc and lead; 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] 18 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 $31,002.50, which is 50 percent of the agreed estimated total cost of this project, $62,005.00.

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

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

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

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

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

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

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

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

(Operator)

By ---

By ---

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

Legal Description

Rainbow, Barton, Codfish, Davis, Greenhorn, Monarch, Monarch No. 2, Pacific, Hidden Treasure, Manitoba, Atlantic, Greyhound No. 2, Montauk, Lucky Joe, Lilans, Sunnyside, Leonora, Lincoln, Hay, Fairbanks, Derby, Contra Costs, Addenda, Roosevelt, Martin, Ione, Chaptain, Big Sam, Kiddrick, Katy and Rosa, Deadwood, Greenwood, Taft, and Franklin lode mining claims situated in Summit Mining District, Shoshone County, Idaho;
and
the Galena, Galena No. 2, Juno, Itaska, and Ione placer claims
and
that portion of the Viola placer claim, United States Mineral Survey No. 2552, situated in Summit Mining District, Shoshone County, Idaho, and described as follows, to-wit;
Beginning at a point "A" on the southerly boundary line of the Viola placer, which point is south 82° 17' west from corner post No. 1, 662.3 feet; thence along this line 1273.1 feet to corner post No. 2; thence north 5° 42' west 271.08 feet to corner post No. 3; thence north 75° 03' east 482.1 feet to corner post No. 4; thence north 10° 20' west 131.82 feet to corner post No. 5; thence north 79° 16' east 709.9 feet to point "B" on the northerly line of said Viola Placer (which point "B" is 663.2 feet south 79° 16' west from corner post No. 6 of said placer); thence south 16° 28' east 507.1 feet to point "A" or the place of beginning; subject to the right-of-way of the Oregon-Washington Railroad & Navigation Company.

EXHIBIT A

Exploration Project

Exploration of the Monarch vein system under this contract in brief will include:

A - A program to gain access to and explore the block of ground between the 600 level and the 786 level and extensions of this block both to the northwest and southeast (see diagram of cross section) where zinc ore reportedly was left by early mining. The exact location of new drifts and test holes will be determined after access is gained.

B - A program to explore vein structures exposed on the 300, 400 and 500 levels and to test walls of known vein structures for possible parallel vein structures.

Both program A and B will be conducted concurrently. Detailed description of work to be performed in the above exploration programs and an estimate of cost and time schedule are listed below.

The work is to be completed within 18 months of date of contract.

1.	Modification and repair of road from main portal to No. 2 or 300 level.		
	a. Widening two switchbacks in bedrock	$350.00	
	b. Smooth and maintain road	250.00	
		600.00	$600.00
2.	Construct change room	500.00	$500.00
3.	Rehabilitation and work on 300 level		
	a. Timbering	725.00	
	b. Pipe line - 700' of 3" pipe	710.00	
	c. Clean out tail room beyond shaft ("A" raise)	120.00	
		1,555.00	$1,555.00
4.	Muck fill at bottom of "A" raise to reach 600 level — 45 feet at $45 per foot	2,025.00	2,025.00

5. Rehabilitate 600 level and "C" raise to 786 level	$4,000.00	$4,000.00
6. a. Test floor of 600 level	160.00	
b. Long hole drilling on 600 level 240 feet at $2.00 per foot (incl. service)	480.00	
	$640.00	640.00
7. Station at top of "C" raise on 600	$3,000.00	$3,000.00
8. a. Air line from shaft "A" collar on 300 level to "C" raise collar on 600 level.	675.00	
b. Installation of above.	250.00	
	$925.00	925.00
9. a. Establish sublevel (700) 125 feet below 600 level and drift 300 feet at $35 per foot.	10,500.00	
b. Pocket on 700 level	500.00	
c. Long hole drilling on 700 level for testing walls, 240 feet at $2.00 per foot (incl. service)	480.00	
	$11,480.00	11,480.00
10. Drifting and drilling between 200 and 600 levels		
a. 300 level - 300' drifting at $30.00 per foot.	9,000.00	
300' long hole drilling at $1.00	300.00	
b. 400 level - 150' drifting at $35.00 per foot.	5,250.00	
250' long hole drilling at $2.00 (incl. service)	500.00	
c. 500 level - 300' long hole drilling at $2.00 (incl. service).	600.00	
	$15,650.00	15,650.00

11. Equipment

a. Compressor	$6,000.00	
b. Trammer	1,800.00	
c. 6 cars at $150 each	900.00	
d. Hoist on 300 level	600.00	
e. Hoist on 600 level	600.00	
f. Wire rope sheaves	350.00	
g. 3 drills, stoper	2,055.00	
h. Long hole outfit		
Steel	125.00	
Mach.	250.00	
I. Rebuild old cage for use in "A" raise -	100.00	
Purchase new cage for use in "C" raise -	300.00	
j. Small tools	300.00	
	$13,380.00	$13,380.00
12. Engineering and geologic service 1/4 time at $125.00 per month ($500 full-time rate)	2,250.00	2,250.00
13. Contingencies (approximately 10 percent)	6,000.00	6,000.00
TOTAL COST OF PROJECT -	$62,005.00	$62,005.00

Time Schedule (approximate)

First quarter - Steps Nos. 1, 2, 3 and 4
Second quarter - Steps Nos. 5, 6, 7 and 8
Third and fourth quarters - Step No. 9
Fifth and sixth quarters - Step No. 10

C
O
P
Y

MONARCH LEASE
Wallace, Idaho

ANALYSIS OF ITEM 11

---

11. Equipment

a.	500 cu ft diesel powered IR compressor in which Monarch Lease has an equity of $2,532.00	$6,000.00
b.	Universal air trammer in which Monarch Lease has an equity of $712.00	1,800.00
c.	6 used 21 cu ft dump cars at $150.00	900.00
d.	Hoist on 300 level to be air driven, 4,000 pound lift, used and reconditioned	600.00
e.	Hoist on 600 level to be air driven, 4,000 pound lift, used and reconditioned	600.00
f.	Wire rope and sheaves, new	350.00
g.	3 stoper drills, new	2,055.00
h.	Long hole outfit of 1 DH35 drifter and 50' of jointed steel - used	375.00
i.	Rebuild old cage	100.00
	Purchase additional cage for "C" raise - used	300.00
j.	Small tools (estimated)	300.00
		$13,380.00

COPY

H. F. MAGNUSON & COMPANY
Certified Public Accountants
Box 469
Wallace, Idaho

March 6, 1952

Mr. Robert E. Wallace
United States Department of the Interior
So. 157 Howard Street
Spokane 4, Washington

Dear Mr. Wallace:

We are in receipt of your letter of February 28, 1952, in regard to the number and class of laborers that will be employed in the Monarch Lease operation. It is estimated that the following will be needed:

(1) 3 miners will be used to complete steps 1, 2, and 3

(2) 4 miners will be used to complete steps 4, 5, 6, and 7

(3) 6 miners will be used to complete steps 8, 9, and 10

An analysis has been made of Item 11 setting forth the pertinent facts about the equipment.

It is the lease's intention not to charge the program for any rental on equipment already owned. I do not know how the compressor and trammer items will be handled. We already have an equity in these items. We could perhaps pay the balance ourselves and then charge you rent on the total cost of each item, or we could possibly complete the payments and be equal owners in that part of the equipment. I do not know what you wish to suggest in this regard.

Any method of handling this which you deem will satisfy the Government will certainly be satisfactory with us. We are not too concerned with getting a large allowance for our present equipment, but rather are very anxious to get funds to develop and reopen the mine.

We appreciate very much your co-operation in this matter, and if we can supply any further information, please call upon us.

Yours very truly,

/s/ H. F. Magnuson

H. F. Magnuson

HFM:jlw
Enc.