DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1190

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

_____

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:	Coor. Corr. Supply Div.	Date	Aug 6
To:	Reports + Records	Date	8/9/57
To:		Date	
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 1190-X

To: Reports and Records Branch D. W. Lowe
LEAD ZINC BRANCH

From: _____

Date: JUL 6 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to _____

Type of request changed to:

_____

Denied ☐ Withdrawn ☐

Approved in amount of $ _____

Other action, specify:

On hand - to be denied

Notes

In the incoming mail here I have a field team report that ought to be sent to USGS. The official card record should be made on DMA 1190X. D. W. Lowe, Goodsprings Hotel, Goodsprings, Nevada. Field team report Region III received. Referred to USGS. Field team recommends denial.

OK for files 11/7/51

DMA 1190X- D. W. Lowe, Goodsprings Hotel, Goodsprings, Nevada

The Region III Field Team report has been received and the docket is returned. The recommendation of the examining geologist is that the application for a loan be denied. I am referring that to USGS but will you please make a note on the cards so that our card record will be up to date. I am also turning over to Ed McKnight this field team report. already noted on card as denial.

NOV 8 1951

Ref: [illegible]-11[illegible]

Mr. [illegible] Lowe
Consulting Geol[illegible]
[illegible], Nevada

Dear Mr. Lowe:

Your application for an exploration loan on the Mineral [illegible] property, near [illegible], Nevada, has been reviewed by the Defense Minerals Administration. [illegible] a field report available to us, when we made on your property at your request.

From our available information, we conclude that there is insufficient mineralization on your property to warrant the expenditure of public funds for your project. The examination of the workings indicated that the prominent shear zone on your property has been inadequately prospected. I regret that we must deny your application for an exploration loan.

We wish to thank you for bringing this property to our attention.

Very truly yours,

Tom Lyon

Tom Lyon, Director
[illegible] Division

[illegible]owcombsmp
[illegible] 11-1-51
Copies to: [illegible] Miller, Region III (2)
Geochemistry Branch
[illegible] Knight [illegible]
[illegible] Bishop
Director r Files [illegible]

Dr. r. Files [illegible]
Administrators r. Files
DMA docket files

NOV 13 1951

5

[illegible]

Re: [illegible]
[illegible] Mineral [illegible] Property
[illegible] County, Nevada
[illegible] Exploration Loan, [illegible]
[illegible], Nevada

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lend-Lease Branch

Subject: Denial of Application

The field examiner's report in the subject property requirements denial of the application.

The applicant proposes to sink a 100 foot shaft on a shear zone and to drift along the zone if ore is encountered. On the surface, the shear zone can be traced along the side of a hill. However, the project is not feasible as the shear zone is not vertical, but is inclined horizontal and parallel to bedding. The examination of a tunnel, which follows this horizontal shear zone, indicates that only sparse lead and zinc mineralization occurs on the property. Further exploration on the property cannot be justified. The concurring field examiner is recommending a denial of the application.

Enclosed herewith are:

1 Field examiner's report
1 Form F-103
1 Form F-103

[signature]
[illegible] Johnson, Acting Chief
Lend-Lease Branch

Approved:

[signature]
Director, [illegible] Division

[illegible]:[illegible]comb:comp
6 11-1-51
Copies to: [illegible] Miller, Region III (2)
Lend-Lease Br.
[illegible] McKnight 4204 GSA
[illegible] Bishop

Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
GSA docket files

NOV 13 1951

5

FILE COPY
SURNAME: 350

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

NOV 6 1951

Refer to	Noted	Date
Answered		

Newcomb (ETM)
McKnight
Bishop
Johnson

Re: DMA-1190
Mineral King Property
Clark County, Nevada
Exploration loan, $11,310
Lead, zinc

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Subject: Denial of application

The field examination report on the subject property recommends a denial of the application.

The applicant proposes to sink a 100 foot shaft on a shear zone and to drift along the zone if ore is encountered. On the surface, the shear zone can be traced along the side of a hill. However, the project is not feasible as the shear zone is not vertical, but is instead horizontal and parallel to bedding. The examination of a tunnel, which follows this horizontal shear zone, indicates that only sparse lead and zinc mineralization occurs on the property. Further exploration on the property cannot be justified. We concur with the field team in recommending a denial of the application.

Returned herewith are:

1 Field team report
1 Form MF-103
1 Form MF-100

G. B. Johnson, Acting Chief
Lead-Zinc Branch

Approved:

Tom Lyon

Director, Supply Division

ELNewcomb:emp
G 11-1-51
Copies to: H. C. Miller, Region III (2)
Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. M. Bishop

Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1951 NOV 16 PM 2:09

SAN FRANCISCO, CALIFORNIA

FILE COPY
SURNAME:

350

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

NOV 8 1951

Re: DMA-1190

Newcomb (ETM)
McKnight
Bishop
Johnson

Mr. D. W. Lowe
Goodsprings Hotel
Goodsprings, Nevada

Dear Mr. Lowe:

Your application for an exploration loan on the Mineral King property, Clark County, Nevada, has been reviewed by the Defense Minerals Administration. We have a field report available to us, which was made on your property at our request.

From our available information, we conclude that there is insufficient mineralization on your property to warrant the expenditure of public funds for your project. The examination of the old workings indicated that the prominent shear zone on your property has been adequately prospected. I regret that we must deny your application for an exploration loan.

We wish to thank you for bringing this property to our attention.

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

ELNewcomb:emp
G 11-1-51

Copies to: H. C. Miller, Region III (2)
Lead-Zinc Branch
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

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

NOV 6 1951

Re: DMA-1190
Mineral King Property
Clark County, Nevada
Exploration loan, $11,810
Lead, zinc

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Subject: Denial of application

The field examination report on the subject property recommends a denial of the application.

The applicant proposes to sink a 100 foot shaft on a shear zone and to drift along the zone if ore is encountered. On the surface, the shear zone can be traced along the side of a hill. However, the project is not feasible as the shear zone is not vertical, but is instead horizontal and parallel to bedding. The examination of a tunnel, which follows this horizontal shear zone, indicates that only sparse lead and zinc mineralization occurs on the property. Further exploration on the property cannot be justified. We concur with the field team in recommending a denial of the application.

Returned herewith are:

1 Field team report
1 Form MF-103
1 Form MF-100

G. E. Johnson, Acting Chief
Lead-Zinc Branch

Approved:

Director, Supply Division

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
OCT 23 8 39 AM '51

DEFENSE MINERALS ADMINISTRATION

OFFICE OF
Executive Officer
DMA Field Team
Region III

1012 FLOOD BUILDING
870 MARKET STREET
SAN FRANCISCO 2, CALIFORNIA

October 16, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, DMA, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Docket DMA-1190X, Lead-Zinc
D. W. Lowe, Goodsprings Hotel, Goodsprings, Nevada

Reference is to your "Review of Application for Exploration Assistance" dated August 9.

Attached are four copies of a report "DMA-1190, Mineralking Property, Clark County, Nevada (Lead-Zinc)," by William P. Irwin and Charles D. Rinehart, Geologists, U. S. Geological Survey, dated October 12, 1951.

The examining geologists recommend that the applicant's loan be denied, owing to the poor likelihood of discovering an appreciable tonnage of ore. As the property did not merit exploration, the geologists made no effort to revise the applicant's cost estimate.

The docket is returned herewith.

H. C. Miller
Executive Officer, DMA Field Team
Region III

Attachment

Copy to: Edgar H. Bailey, U.S.G.S.

5

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 23 8 39 AM '51

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY THE FIELD TEAM
REGION III

DMA 1190, Mineralking Property

Clark County, Nevada

(Lead-Zinc)

William P. Irwin, Geologist
Charles D. Rinehart, Geologist
U. S. Geological Survey

October 12, 1951

Introduction

The Mineralking lead-zinc property was examined at the request of Mr. Tom Lyon, Director, Supply Division, Defense Minerals Administration, following the application for Government participation in an $11,810 program to explore the property. September 6 and 7, 1951, were spent by W. P. Irwin and C. D. Rinehart of the Geological Survey in the company of the applicant D. W. Lowe examining the property. A sketch map of the property was made by the Brunton-tape method at a scale of 1 inch equals 200 feet. The indicated ore in the deposit appears to be in the order of several hundred tons. The exploration loan is not recommended, owing to the poor likelihood of discovering an appreciable tonnage of ore.

The property consists of two unpatented claims in the SW¼ sec. 2 T. 25 S., R. 58 E., MDBM, in the Yellow Pine Mining district, Clark County, Nevada. It is one-half mile southeast of the Mountain Top mine and ½ mile southwest of Crystal Pass.1/ Access to the property from Goodsprings, Nevada is as follows: From the Goodsprings Hotel go south 0.3 miles to the intersection of an east-west road; turn right and go west 1.0 miles on a gravel road to the intersection of a northeast-southwest gravel road; turn left and go 0.1 miles to the intersection of a one-lane, ungraded dirt road leading south; turn left and go south 0.1 miles to a fork in the road; turn left and go 1.0 miles to the end of the road; walk south about 1.5 miles along a dry-wash to the property which is on the west side of the valley at an approximate altitude of 4500 feet.

The history of the property is obscure. It was apparently last operated in 1918 when it was known as the Luck Bug mine. The ore was selectively mined, hand sorted, and packed out on burros. About 200 tons of 30 percent lead ore are reported to have been shipped. The present owner, D. W. Lowe, acquired the property about 1949.

The nearest satisfactory haulage road is 2 miles west of the property. The nearest available water supply is a well 3 miles from the mine. No equipment was on the property when it was examined.

Workings

The main workings is a curved, 210-foot tunnel with appended gopher-like stopes. It almost completely undermines an area that is crudely elliptical in plan. The long axis of the elliptical area strikes N. 30 W., parallel to the contour of the hill, and is 80 feet long. The short axis is 40 feet long, and at its southwest end is 60 feet from the portal of the tunnel. A shaft at the portal was sunk to a depth of about 25 feet but is inaccessible. Additional

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1/ Hewett, D. F., Geology and ore deposits of the Goodsprings Plate 1 Quadrangle, Nevada: U. S. Geological Survey Prof. Paper 162, 1931.

workings along the hillside consist of five small open cuts and a 30-foot inclined shaft. These are spaced at intervals along a line that trends N. 35 W. for about 1000 feet, and are within 80 feet of one another vertically.

Geology

The property is underlain by Monte Cristo limestone of Mississippian age. 2/ The limestone beds are nearly horizontal, and are cut by a shear zone that is parallel to the bedding. In the shear zone are replacement deposits of lead-and zinc-bearing minerals.

The limestone is massive, finely crystalline, and light olive gray in color. In general it is well exposed, and forms numerous step-like terraces that contour the hillsides, owing to the horizontal attitude at the beds. Just above the workings, a bed of yellowish-gray, medium-grained quartzite is interbedded with the limestone. It ranges from 1 to 4 feet in thickness, and crops out at intervals along the hillside for more than 1000 feet.

The shear zone is in limestone immediately beneath the quartzite bed. It can be traced along the northeasterly sloping hillside in outcrops and workings along a fairly straight northwesterly line. Although the shear zone locally transgresses the quartzite, in most places it is essentially parallel to the bedding of the limestone. It is thickest where exposed along the hillside; at the portal of the main workings it is about 35 feet thick, whereas in the innermost part of the workings it is only a few feet thick.

The shear zone consists mainly of brecciated limestone that has been cemented by coarsely-crystalline calcite. The calcite is sparse in the innermost workings. The metallic minerals occur for the most part in the cemented breccia, generally within a few feet of the hanging-wall contact of the shear zone.

Galena is the only sulfide mineral observed megascopically. In large part it has been altered to anglesite and cerussite. Calamine and hydrozincite appear to be the principal zinc-bearing minerals.

Conclusions

The applicant planned to sink a 100-foot vertical shaft on the outcrop of the shear zone to explore what he believed to be a vertical rather than a horizontal shear zone. The plan is not feasible, as

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2/ Hewett, D. F., op. cit., pp. 17-21

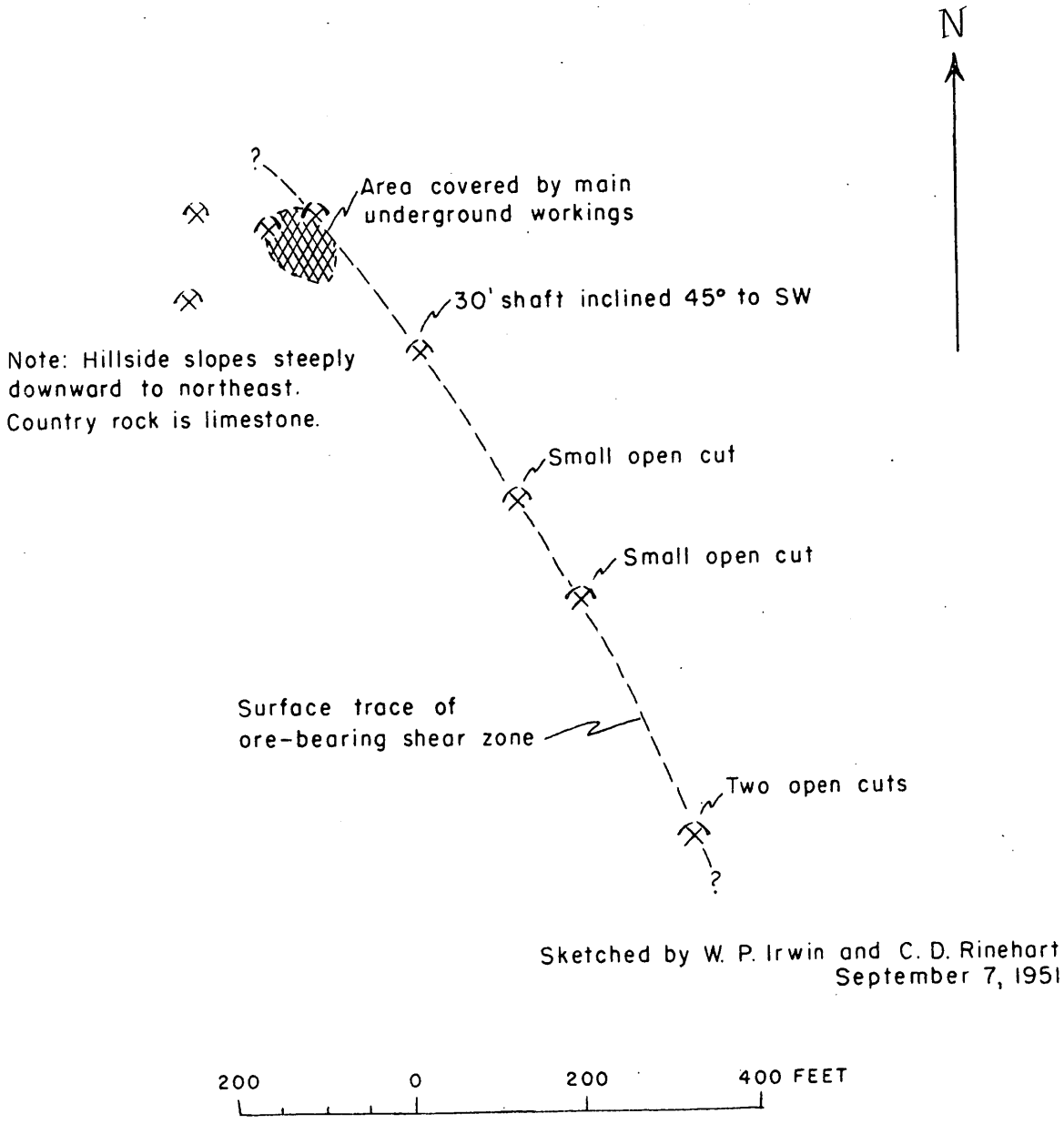
the shaft would be at right angles to the horizontal attitude of the shear zone, and there is no reason to believe that it would penetrate other favorable zones at depth.

The shear zone contains sporadic concentrations of lead- and zinc-bearing minerals along its exposed length. Exposures in the underground workings indicate that the zone pinches rapidly toward the inner part of the hill, thereby limiting the area in which the concentrations may be expected to occur. It appears likely that the deposit contains several hundred tons of lead-zinc ore that could be hand sorted to make a high grade product, but it is doubtful that it could be extracted on a profitable basis.

The exploration loan is not recommended, owing to the poor likelihood of discovering an appreciable tonnage of ore.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA 1190X
(LEAD-ZINC)



SKETCH MAP OF MINERALKING MINE, CLARK COUNTY, NEVADA

FILE COPY
SURNAME:

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

Lyons (ETM)
McKnight
O'Leary
(For Mote)
Billings
Rose
Merrill

AUG 9 1951

Re: DMA-1190X

a. E. C.

Mr. D. W. Lowe
Goodsprings Hotel
Goodsprings, Nevada

Dear Mr. Lowe:

The Lead-Zinc Branch of the Defense Minerals Administration has reviewed your application for a loan to explore the Mineralking property in Clark County, Nevada.

Because the information which you submitted was not in sufficient detail to make a fair appraisal of your application, we have sent it to Mr. H. C. Miller, Executive Officer, DMA Field Team, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for further information and advice.

We sincerely regret the delay in the processing of your application.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

EJLyons:emp
G 8-3, 1951
Copies to: H. C. Miller, Region III (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports and Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

Re: DMA-1190X

AUG 9 1951

Mr. D. K. Lowe
Goodsprings Hotel
Goodsprings, Nevada

Dear Mr. Lowe:

The Lead-Zinc Branch of the Defense Minerals Administration has reviewed your application for a loan to explore the Minerslking property in Clark County, Nevada.

Because the information which you submitted was not in sufficient detail to make a fair appraisal of your application, we have sent it to Mr. H. C. Miller, Executive Officer, DMA Field Team, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for further information and advice.

We sincerely regret the delay in the processing of your application.

Very truly yours,

SIGNED
Tom Lyon, Director
Supply Division

MJLyons:emp
G 8-3, 1951
Copies to: H. C. Miller, Region III (2)
Chief, Lead-Zinc Br.
E. T. McKnight L&CD, GSA
R. H. Mets
Reports and Records
Directors r. file L&CD, GSA
Br. r. file L&CD, GSA
Files

RECEIVED
AUG 9 1951
SAN FRANCISCO, CALIFORNIA

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

AUG 9 1951

Mr. Harold C. Miller
Executive Officer, DMA Field Team
Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Dear Sir:

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

Docket No. 1190X

Commodity Lead-Zinc

Applicant D. W. Lowe, Goodsprings Hotel, Goodsprings, Nevada

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

ADMINISTRATION
WASHINGTON, D.C.
OCT 23 8 39 AM '51

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 1190X

Commodity Lead-zinc

Total Amount $11,810

Govt. Participation 50% ($5,905)

1. Name and Address of Applicant D. W. Lowe, Goodsprings Hotel, Goodsprings, Nevada.

2. Location of Property Mineralking property, T. 25 S., R 58 E., Clark County, Nevada.

3. Mineral or metal Lead-zinc-silver 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 X

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? Does not apply

Does the lease have sufficient time to run to cover a future productive period? Does not apply

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

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)* Road construction required

d) Water (question 13)* Yes

e) Power (question 13)* Yes

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

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Don't know

_____

Is a field check needed on this point? Yes

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

a) Is the project adequately described? No

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

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

_____

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Apparently

If not, what part of it is? _____

_____

_____

_____

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? Yes

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? No

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

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? No

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? Don't know

b) Sufficient data?

c) Reasonable?

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? Total cost estimate appears to be in error because of rental value of equipment owned by applicant.

Reviewed by: Erwin J. Lyons GS

Date 8-3-51

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

McKnight
O'Leary
(For Moe)
Billings

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION AUG 9 1951
WASHINGTON, D. C.

Mr. Harold C. Miller
Executive Officer, DMA Field Team
Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Dear Sir:

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

Docket No. 1190X

Commodity Lead-Zinc

Applicant D. W. Lowe, Goodsprings Hotel, Goodsprings, Nevada

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. 1190X

Commodity Lead-zinc

Total Amount $11,810

Govt. Participation 50% ($5,905)

1. Name and Address of Applicant D. W. Lowe, Goodsprings Hotel, Goodsprings, Nevada.

2. Location of Property Mineralking property, T. 25 S., R 58 E., Clark County, Nevada.

3. Mineral or metal Lead-zinc-silver 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 X

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? Does not apply

Does the lease have sufficient time to run to cover a future productive period? Does not apply

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201?

b) MF-202

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)* Road construction required

d) Water (question 13)* Yes

e) Power (question 13)* Yes

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

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Don't know

Is a field check needed on this point? Yes

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

a) Is the project adequately described? No

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

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

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Apparently

If not, what part of it is?

Is this part a worthwhile exploration project? _____

d) Are the cost estimates detailed? Yes

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? No

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

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? No

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? Don't know

b) Sufficient data?

c) Reasonable?

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? Total cost estimate appears to be in error because of rental value of equipment owned by applicant.

Reviewed by: Erwin J. Lyons GS

Date 8-3-51

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

Billings

Goodsprings, Nevada

July 17, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 24 1951
LANDON F. STROBEL
Executive Secretary

Mr Landon F.Strobel,
Executive Secretary,
Defense Minerals Administration

Dear Sir;

In regards to Exploration loan,Mineralking mine DMA-1190X.

Since receiving your letter of May 24, 1951 which stated the application was referred to Mr.Otto Herres,Chief, Lead-Zinc Branch on May 18, 1951 I have not heard anything further, nor have I communicated with Mr.Herres.

I would greatly appreciate hearing from you or Mr.Herres regarding the present outlook regarding granting the loan.

I am reluctant to engage in any venture or commit my time to any long range engagement until I have heard from this loan. I feel that with the aid of this loan that a mutual benefit will be derived.

If there are any further information desired please advise.

May I hear from you at your convenience?

Sincerely,

D.W.Lowe

D.W.LOWE, GOODSPRINGS HOTEL,
GOODSPRINGS, NEVADA

JUL 24 1951

L

FILE COPY
SURNAME:

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

May 24, 1951

Mr. D.W. Lowe
Goodsprings Hotel
Goodsprings, Nevada

Subject: DMA-1190X
Re: Exploration Loan
Mineralking

My dear Mr. Lowe:

Receipt is acknowledged of your application and attachments of April 29, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1190X and was referred to Mr. Otto Herres, Chief, Lead-Zinc Branch on May 18, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1190X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:mab
cc: Strobel-2
Files
Herres
Lyon

Form MF-103
(April 1951)

U. 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-1190 X

Date received 5/17/51

Participation

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS NEVADA

Name and address of applicant

Date APRIL 29, 1951

FILL IN THIS BLOCK

Date of application APRIL 29, 1951 Estimated cost $11,810.00

Mineral or metal Lead, Silver, Zinc & Vanadium Percentage of Government participation 50%

Location of mine YELLOWPINE MINING DIST

GOODSPRINGS, CLARK CO., NEVADA

Date of filing MF-100 APRIL 28, 1951 DMA Docket Number, if available DMA-1190 X

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*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.

(Name of company)	By J. A. Lowe (Signature of authorized official)
April 29, 1951 (Date)	Owner (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

FORM MF-103

*1,2,3,4,5. All answered MF-100.

6. No encumbrances on Mineralking property.

7. Not lessee.

8. Property idle.

9. one half of cost of project per section 9 M05.

10. Property involved will be Mineralking only. No buildings on property. The Mineralking consists of two lode claims not patented. Each claim 600 ft by 1500 ft.

(B) Mineralking located in Yellowpine mining dist Goodsprings , Clark Co.Nevada.T25S R58 E.Has not been surveyed. Both 10 (a) and (b) are same.

*11,12,13,14. Answered on MF-100.

15. Ore of shipping grade would be hauled approximately 15 miles from mine to Jean Nev UP RR shipping point then shipped to smelter in Utah, which is customary in this district. If sufficient ore was developed to warrant would lease 1 of 3 available mills located 3 to 5 miles distant from the mine. No mine in this district is located near a water source and all have to truck there ore to mill.

*16,17,18. Answered in MF-100.

19. It is my intention to sink to 100 ft level and drift across the ore zone and mine ore above 100 ft. With this advantage I believe the property will then be self supporting and further development carried out at lower depth on earnings from mine. At that stage it will be apparent whether a mill will be profitable. Until this development has been carried out think it would be premature to consider a mill project.

ond sheet,

FORM MF-103

20. The exploration will be carried out for Lead, zinc silver and vanadium. The vanadium content is present but at present do not know value or quanity.
The type of ore is Lead galena(sulphide) lead carbonate and zinc carbonate or oxide. The ore occurs in limestone breccia in veins and lenses.

21. I intend to sink from point beneath a 20 ft shaft to a depth of 100 ft then drift across the ore zone then crosscut to east and west fault which lies about 30 ft north of shaft. The ore zone runs from this fault to about 1000 ft south of shaft. Also the road construction would take 30 days. Total time would be 6nmonths from time work began.

22. The ore occurs in a crushed zone near a major fault which separates a lava flow and the limestone formation where mine is located indicating possibilities of ore continuing to a great depth. The ore makes in veins and lenses between massive boulders in much the same manner as occured at the Bullion mine nearby. At a greater depth would expect to find the faulting movement more confined and ore more concentrated due to secondary enrichment. Outcroppings of highgrade galena on surface in various places indicate the solutions carrying the ore penetrated a wide area. Had this property been accessible by road would have been developed many years ago. However the necessity of packing equipment and supplies and ore out made it impractical. The ore had to consistently run 25% or better to allow the expense. The waste dumps contain values ranging from 5 to 12% lead and 5 ounzes of silver and when run over a 3/4 inch screen average 18% lead about 5 oz silver.

end sheet.

FORM MF-103

23. 2 miners(and muckers). Wages $12.00 per day.Total $24.00.
1 foreman.Duties as top man running hoist, sharpening tools, tramming waste and other related duties. Wages $15.00 per day.

B. 1 superintendent. These duties will be assumed by me at no wages. There will be considerable work hauling water getting supplies and laying out work and getting equipment repairs from Las Vegas (nearest supply point) also timekeeping and reports which I am familiar with through previous experience.

C. Require 10 days to set up head frame and hoist and install track and car to haul waste at a cost of approximately $500.00 including wages and operating cost.

D. The hoist operator shelter and tool storage structure is inclueded in item C.using material on hand.

E. All equipment needed for operating is owned by me and will be furnished according to Section 9 MO 5.

F. Will be necessary to rent bulldozer and operator for a 10 day period for road construction. Local resident available at $50.00 per day. Total cost $500.00.

G. 1-portable 60 cu.ft.air compressor,jackhammer and hoses at $1.00 per hour.
1-90 cu.ft.air compressor hammer,hoses,&etc at $1.50 per hr.
1-1 ton truck to haul men & supplies at 1.50 per hr.
1-½ ton pickup truck at $1.50 per hr.when necessary to use.
1-mine hoist cable buckets, track and mine car at $1.00 per hr.
There will be gaso supplies powder caps fuse rock bits and other expendable items which will be itemized on following sheet.

end sheet.

FORM LF-103

(H).

ITEMIZED COSTS:

POWDER TO BE USED ON ROAD CONSTRUCTION AND MINE DEVELOPMENT

1/2 ton on road.....$220.00

1½ ton mine.....$660.00

Caps and fuse.....$125.00 .....$1005.00

Gasoline/oil for hoist, compressors and trucks.....$720.00

Repairs to equipment.during.operation..... $100.00

Rock bits..... $ 65.00

Most of the supplies will be hauled at time men are transported to and from work excepting powder etc which will be purchased delivered at mine.

Bulldozer and operator..... $500.00

Wages 2 men on road construction at $24.00.20days $480.00

Wages 2 men and top man (foreman)sinking 40 days 1560.00

Wages 2 men and top man (foreman)drifting etc25da. 975.00

Industrial compensation costs estimated..... 500.00

TOTAL .....$ 5905.00

The above cost to be matched by mine owner thru equipment rental and own time contributed to be paid thru royalities of ore shipped after development work per Section 9 No 5. There was no allowance for timbering as ground in this territory does not require same only in isolated cases.

(I) Power water etc was figured in above schedule.

24. Road construction 2 men...20 working days

Setting hoist etc	2 men	10	do
Shaft sinking	3 men	40	do
Drifting	3 men	25	do.

omd sheet.

FORM MF-100

24. First month (20 working days) Road completed to mine.

Cost. Wages (2 men $15. & $12)	$540.00	
Powder (1 ton lot)	120.00	
Caps, fuse, minor expenses.....	100.00	
Gaso & oil.....	125.00	
	1185.00	
Bulldozer rental.....	500.00	
	$ 1685.00	1685.00
Second month. Setting up equipment and sinking inclined shaft to 20 ft.		
Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso. etc.....	125.00	
Other expense.....	100.00	
	765.00	765.00
Third month. Sinking shaft to 70 ft.		
Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso. etc.....	125.00	
Other expense..powder etc.....	100.00	
	765.00	765.00
Fourth month. Finish shaft work and drifting across ore zone..20. ft.		
Wages (2 men) 40 shifts.....	540.00	
(1 man) 10 shifts.....	120.00	
Gaso. etc.....	125.00	
Other expenses.....	100.00	
	885.00	885.00
Fifth month. Drifting across ore zone 60 ft..(total 80 ft).....		
Cost. Wages (3 men)..60 shifts.....	780.00	
Gaso. etc.....	125.00	
Other expenses.....	100.00	
	1005.00	1005.00
Sixth month. Complete drift and crosscuts		
Total expense.....	800.00	800.00
Grand Total.....		$ 5905.00

D. W. Lowe

D.W.LOWE, OWNER, MINERALKING

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma - 1190 X

Date received 5/17/51

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS NEVADA

Name and address of applicant

Date APRIL 28, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

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

General Technical Data
(MF-100)

1. Materials produced;

   (a). Lead and silver.(Probably zinc).

   (b). Zinc and vanadium.

2. Mineralking. Lode mine. Formerly named the Luck Bug.

   (a). 2 shafts. 1 vertical 20 ft. 1 incline 15 ft.

   (b).1 tunnel 75 ft. 3 short crosscuts totaling 50 ft.

   (c). 1 inclined raise to surface 15 ft.

   (d). There are several prospecting pits dug on 5 ore outcroppings on surface. The mine is dry with no possibility of flooding at any conceivable depth.

3. (a). 16 miles west of Jean Nev UP RR shipping point. 7 miles south of Goodsprings,Nev.(these distances are via auto roads not airline.

   (b). Yellowpine mining dist.

   (c). T.25 S. R.58 E. Goodsprings Nev.

   (d). Clark county Nevada.

4. (a). Property idle.

   (b). Owner.

5. Property has not produced since about 1919 or thereabout. Production would ~~expected~~ commence six months after beginning of exploration project.

end of sheet.

General Technical Data
(MF-100) Sheet 2.

6. Experience of operator.

I, D.W.Lowe, have operated several mines in this area during the past six years. The May Kirby (lead and iron) the Clemintina (gold) The Forty Six(Dawn Mine). The Forty Six was operated with the aid of the government during the period after the war when the premium plan or bonus was in effect.

In addition I have been a partner in numerous operations as the business manager and supplying the properties through a general store that I operated for several years. At present I am operating the Goodsprings Hotel as Owner and proprietor and engaging in other projects as well.

7.(a). The previous exploration was mainly taking out high grade lead silver ore and as soon as exhausted or became unprofitab[illegible] abandoned. Thre is about 200 ft of work overall[illegible]ng from exist of the property but a fairly [illegible] over 3/4 inch screen made of previous produ[illegible]ad and 5[illegible]unces silver. I have run 500 to 700 [illegible] tons of this material on the property.

I would estimate about 5 carloads of this material could shipped.

Since all the ore shipped was packed by animals out of property would estimated 200 tons of 25 to 40% lead was shipped and when high grade surface veins exhausted production stopped due to high cost of operating.

end sheet.

General Technical Data
(MF-100) Sheet 3.

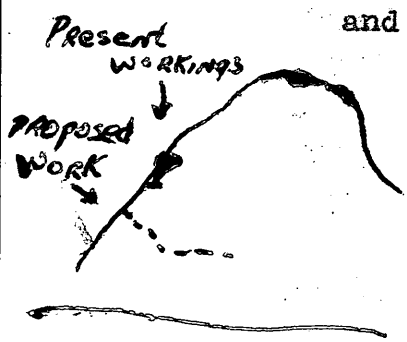
7.(b). Bullion Mine 1 mile (airline) Production according to D.F.Hewitt report 1913-1927 total 4498 tons. Also during period 1916-1924 report shows 2170 tons lead ore netting over $95,000 and 564 tons zinc netting over $15,000. Total net according to local sources over entire operation 1907 to present in excess of 250,000 dollars.

Mountain top Mine ½ mile (airline) 6500 tons of lead zinc silver ore during period 1912-1926 (Hewitts report).

There has been considerable production since that time and also both the properties which are near my property are potential producers.

(c). Enclosed and attached are assay report of test made of property. As far as known no geological report or examination by an engineer has been made.

However this property is well thought of locally and has been idle account no road was thought feasable. About 3 years ago the US Govt. built a road to an airplane beacon light which ended approximately 2 miles from this property and by extending this road (now abandoned) to mine would make further exploration and mining feasable.



Reccomended exploration and development.

Extension of road at cost of approximately $2000.00.

Sinking shaft to depth of 100 ft from a point beneath a 20 ft shaft then drifting from 100 ft level to cut width of ore zone and short crosscuts from this drift to ore shoots approximate cost $8,000.00. This cost includes labor material and cost of transportation to mine and equipment rental.

end sheet.

General Technical Data
(NF-100) Sheet 4.

8. None.

9. None.

10. Production;

Estimated. Covering period during 1918-1919.

Probably about 200 tons of 30% lead ore mined and packed to shipping point.

11. Expect to produce 50 tons of shipping ore per week and an undetermined amount of mill grade. With an access road and proposed development will be able to mine in greater quanities and handle a much lower grade of ore. Previously the mill grade ore was discarded and is now in dump available for milling when road completed.

12. The ore is in a crushed zone of limestone and makes in cracks and open areas around large boulders. Most of the work was done on the higher grade ore near the surface. Outcroppings of high grade galena occur in a zone about 1000 ft in lengths and varying from a few feet to 150 wide. These outcroppings are not large enough to work from the surface but they do indicate that the lead solutions were present throughout the entire crushed zone and at depth where the movements were more confined should be more continuos, also from the open character of the ground would expect a secondary enrichment also a much higher zinc content. The property is located near a major earth fault (Fredrickson) and a lava flow indicating that likely volcanic origin and of great depth.

end sheet.

General Technical Data
(MF-100) Sheet 5.

12.B.

(1). Assay sheet enclosed.

(2) . The development work is insufficient to give a reliable estimate of ore reserves. Development work will be retarded until an access road is constructed, account unable to get equipment other than hand tools to property. However, there is dump material assaying from 5 to 12% lead and which runs average of 18% after running over 3/4 inch screen. The dumps contain about 500 to 700 tons of material. also I have 15 tons of 18% lead stockpiled which was screened from dump in testing.

From surface indications a considerable amount of mill grade ore could be obtained, however my plans are not to mill until have sufficient millore blocked out to warrant leasing 1 of 3 available mills in this area.

(C). Not a placer mine.

13. Access roads;

Shipping point of Jean, Nev.is 15 miles from property. 7½ miles is asphalt paved, 2½miles is improved gravel road and 3 miles of raad was formerly maintained and used by the Civil aeronautic, the remainer of 2 miles needs constructing. 1½ miles was constructed by me but is not in trucking condition the last ½ mile requires drilling and blasting and few days work with bulldozer. Would require about 2000.00 including labor materials and equipment.

end sheet

General Technical Data
(MF-100) Sheet 6.

14. Water Supply.

None. Water is extremely scarce in this area and no mine in this district is located near a water supply. All mines are forced to truck ore to mills located at water supply. Nearest water to Mineralking property is 3 miles.

15. No electrical power nearer than 3 miles. Not necessary to use power other than gasoline or diesel.

16. Labor. None employed.

This is a mining community and manpower sufficient for ordinary operations.

17. Equipment and Facilities;

No buildings or equipment on mining property.

I have necessary equipment for operation. I have 2 air compressors, hoist, buckets, mine cars, rail, pipe and other necessary equipment including small truck and pickup truck. All this equipment has been used in previous mining operations. I also have material for constructing loading and storage bins at mine. No camp would be necessary at mine as miners would reside at Goodsprings and would be furnished transportation to and from mine.

18. I

I think everything has been covered. No condition exist in this operation that is unusual to this area.

D. W. Lowe

D.W.LOWE, OWNER MINERALKING MINE.

(*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~~.

(Name of company)

By S. M. Lowe
(Signature of authorized official)

April 18, 1951
(Date)

Owner
(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-1190 X

Date received 5/17/51

Participation

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS, NEVADA

Name and address of applicant

Date APRIL 29, 1951

FILL IN THIS BLOCK

Date of application APRIL 29, 1951 Estimated cost $11,810.00

Mineral or metal LEAD, SILVER, ZINC & VANADIUM Percentage of Government participation 50%

Location of mine YELLOWPINE MINING DIST

GOODSPRINGS, CLARK CO. NEVADA

Date of filing MF-100 APRIL 28, 1951 DMA Docket Number, if available Dma-1190 X

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*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.

(Name of company)	By L. D. Lowe (Signature of authorized official)
April 29, 1951 (Date)	Owner (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

FORM MF-103

20. The exploration will be carried out for Lead, zinc silver and vanadium. The vanadium content is present but at present do not know value or quanity.
The type of ore is Lead galena(sulphide) lead carbonate and zinc carbonate or oxide. The ore occurs in limestone breccia in veins and lenses.

21. I intend to sink from a point beneath a 20 ft shaft to a depth of 100 ft then drift across the ore zone then crosscut to east and west fault which lies about 30 ft north of shaft. The ore zone runs from this fault to about 1000 ft south of shaft. Also the road construction would take 30 days. Total time would be 6mmonths from time work began.

22. The ore occurs in a crushed zone near a major fault which separates a lava flow and the limestone formation where mine is located indicating possibilities of ore continuing to a great depth. The ore makes in veins and lenses between massive boulders in much the same manner as occured at the Bullion mine nearby. At a greater depth would expect to find the faulting movement more confined and ore more concentrated due to secondary enrichment. Outcroppings of highgrade galena on surface in various places indicate the solutions carrying the ore penetrated a wide area. Had this property been accessible by road would have been developed many years ago. However the necessity of packing equipment and supplies and ore out made it impractical. The ore had to consistently run 25% or better to allow the expense. The waste dumps contain values ranging from 5 to 12% lead and 5 ounzes of silver and when run over a 3/4 inch screen average 18% lead about 5 oz silver.

end sheet.

FORM MF-103

23. 2 miners(and muckers). Wages $12.00 per day.Total $24.00.
1 foreman.Duties as top man running hoist, sharpening tools, tramming waste and other related duties. Wages $15.00 per day.

B. 1 superintendent. These duties will be assumed by me at no wages. There will be considerable work hauling water getting supplies and laying out work and getting equipment repairs from Las Vegas (nearest supply point) also timekeeping and reports which I am familiar with through previous experience.

C. Require 10 days to set up head frame and hoist and install track and car to haul waste at a cost of approximately $500.00 including wages and operating cost.

D. The hoist operator shelter and tool storage structure is inclueded in item C.using material on hand.

E. All equipment needed for operating is owned by me and will be furnished according to Section 9 MO 5.

F. Will be necessary to rent bulldozer and operator for a 10 day period for road construction. Local residant available at $50.00 per day. Total cost $500.00.

G. 1-portable 60 cu.ft.air compressor,jackhammer and hoses at $1.00 per hour.
1-90 cu.ft.air compressor hammer,hoses,&etc at $1.50 per hr.
1-1 ton truck to haul men & supplies at 1.50 per hr.
1-½ ton pickup truck at $1.50 per hr.when necessary to use.
1-mine hoist cable buckets, track and mine car at $1.00 per hr.
There will be gaso supplies powder caps fuse rock bits and other non-expendable items which will be itemized on following sheet.

end sheet.

FORM MF-103

(H).

ITEMIZED COSTS:

POWDER TO BE USED ON ROAD CONSTRUCTION AND MINE DEVELOPMENT

1/2 ton on road.....$220.00

1½ ton mine.....$660.00

Caps and fuse.....$125.00 .....$1005.00

Gasoline/oil for hoist, compressors and trucks.....$720.00

Repairs to equipment.during.operation..... $100.00

Rock bits..... $ 65.00

Most of the supplies will be hauled at time men are transported to and from work excepting powder etc which will be purchased delivered at mine.

Bulldozer and operator..... $500.00

Wages 2 men on road construction at $24.00.20days $480.00

Wages 2 men and top man (foreman)sinking 40 days 1560.00

Wages 2 men and top man (foreman)drifting etc25da. 975.00

Industrial compensation costs estimated..... 500.00

TOTAL .....$ 5905.00

The above cost to be matched by mine owner thru equipment rental and own time contributed to be paid thru royalities of ore shipped after development work per Section 9 No 5.

There was no allowance for timbering as ground in this territory does not require same only in isolated cases.

(I) Power water etc was figured in above schedule.

24. Road construction 2 men...20 working days

Setting hoist etc	2 men	10	do
Shaft sinking	3 men	40	do
Drifting	3 men	25	do.

end sheet.

FORM MF-103

*1,2,3,4,5. All answered MF-100.

6. No encumbrances on Mineralking property.

7. Not lessee.

8. Property idle.

9. one half of cost of project per section 9 M05.

10. Property involved will be Mineralking only. No buildings on property. The Mineralking consists of two lode claims not patented. Each claim 600 ft by 1500 ft.

(B) Mineralking located in Yellowpine mining dist Goodsprings , Clark Co.Nevada.T25S R58 E.Has not been surveyed. Both 10 (a) and (b) are same.

*11,12,13,14. Answered on MF-100.

15. Ore of shipping grade would be hauled approximately 15 miles from mine to Jean Nev UP RR shipping point then shipped to smelter in Utah, which is customary in this district. If sufficient ore was developed to warrant would lease 1 of 3 available mills located 3 to 5 miles distant from the mine. No mine in this district is located near a water source and all have to truck there ore to mill.

*16,17,18. Answered in MF-100.

19. It is my intention to sink to 100 ft level and drift across the ore zone and mine ore above 100 ft. With this advantage I believe the property will then be self supporting and further development carried out at lower depth on earnings from mine. At that stage it will be apparent whether a mill will be profitable. Until this development has been carried out think it would be premature to consider a mill project.

end sheet,

FORM IP-100

24. First month (20 working days) Road completed to mine.

Cost. Wages(2 men @15.00 @12)	$540.00	
Powder(1 ton lot)	420.00	
Caps, fuse, minor expenses.....	100.00	
Gaso & oil.....	125.00	
	1185.00	
Bulldozer rental.....	500.00	
	$ 1685.00	1685.00

Second month. Setting up equipment and sinking inclined shaft to 20 ft.

Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso.etc.....	125.00	
Other expense.....	100.00	
	765.00	765.00

Third month. Sinking shaft to 70 ft.

Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso.etc.....	125.00	
Other expense..powder etc.....	100.00	
	765.00	765.00

Fourth month. Finish shaft work and drifting across ore zone..20.ft.

Wages (2 men) 40 shifts.....	540.00	
(1 man) 10 shifts.....	120.00	
Gaso.etc.....	125.00	
Other expenses.....	100.00	
	885.00	885.00

Fifth month. Drifting across ore zone 60 ft..(total 80 ft).....

Cost. Wages (3 men)..60 shifts.....	780.00	
Gaso.etc.....	125.00	
Other expenses.....	100.00	
	1005.00	1005.00

Sixth month. Complete drift and crosscuts Total expense.....	800.00	800.00
Grand Total.....		$ 5905.00

D. H. Lee

D. H. Lee, C. E. R., [illegible]

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma-1190 X

Date received 5/17/51

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS NEVADA

Name and address of applicant

Date APRIL 28, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

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

General Technical Data
(MF-100)

1. Materials produced;

   (a). Lead and silver.(Probably zinc).

   (b). Zinc and vanadium.

2. Mineralking. Lode mine. Formerly named the Luck Bug.

   (a). 2 shafts. 1 vertical 20 ft. 1 incline 15 ft.

   (b).1 tunnel 75 ft. 3 short crosscuts totaling 50 ft.

   (c). 1 inclined raise to surface 15 ft.

   (d). There are several prospecting pits dug on 5 ore outcroppings on surface. The mine is dry with no possibility of flooding at any conceivable depth.

3. (a). 16 miles west of Jean Nev UP RR shipping point. 7 miles south of Goodsprings,Nev.(these distances are via auto roads not airline.

   (b). Yellowpine mining dist.

   (c). T.25 S. R.58 E. Goodsprings Nev.

   (d). Clark county Nevada.

4. (a). Property idle.

   (b). Owner.

5. Property has not produced since about 1919 or thereabout. Production would commence six months after beginning of exploration project.

end of sheet.

General Technical Data
(MF-100) Sheet 2.

6. Experience of operator.

I, D.W.Lowe, have operated several mines in this area during the past six years. The May Kirby (lead and iron) the Clemintina (gold) The Forty Six(Dawn Mine). The Forty Six was operated with the aid of the government during the period after the war when the premium plan or bonus was in effect.

In addition I have been a partner in numerous operations as the business manager and supplying the properties through a general store that I operated for several years. At present I am operating the Goodsprings Hotel as Owner and proprietor and engaging in other projects as well.

7.(a). The previous exploration was mainly taking out high grade lead silver ore and as soon as exhausted or became unprofitable abandoned. Thre is about 200 ft of work overall. No records exist of the property but a fairly accurate estimate can be made of previous production. The dumps (3) contain between 500 to 700 tons of material which contain lead ranging from 5 to 12 percent. This material when run over 3/4 inch screen yeilds an average of 18% lead and 5 ounces silver. I have run and stockpiled 15 tons of this material on the property.

I would estimate about 5 carloads of this material could shipped.

Since all the ore shipped was packed by animals out of property would estimated 200 tons of 25 to 40% lead was shipped and when high grade surface veins exhausted production stopped due to high cost of operating.

end sheet.

General Technical Data
(MF-100) Sheet 3.

7.(b). Bullion Mine 1 mile (airline) Production according to D.F.Hewitt report 1913-1927 total 4498 tons. Also during period 1916-1924 report shows 2170 tons lead ore netting over $95,000 and 564 tons zinc netting over $15,000. Total net according to local sources over entire operation 1907 to present in excess of 250,000 dollars.

Mountain top Mine ½ mile (airline) 6500 tons of lead zinc silver ore during period 1912-1926 (Hewitts report).

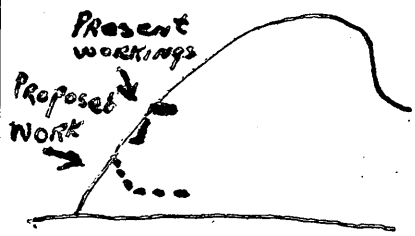
There has been considerable production since that time and also both the properties which are near my property are potential producers.

(c). Enclosed and attached are assay report of test made of property. As far as known no geological report or examination by an engineer has been made.

However this property is well thought of locally and has been idle account no road was thought feasable. About 3 years ago the US Govt. built a road to an airplane beacon light which ended approximately 2 miles from this property and by extending this road (now abandoned) to mine would make further exploration and mining feasable.

Reccomended exploration and development.

Extension of road at cost of approximately $2000.00.



Sinking shaft to depth of 100 ft from a point beneath the 20 ft shaft then drifting from 100 ft level to cut width of ore zone and short crosscuts from this drift to ore shoots approximate cost $8,000.00. This cost includes labor material and cost of transportation to mine and equipment rental.

end sheet.

General Technical Data
(MF-100) Sheet 4.

8. None.

9. None.

10. Production;

Estimated. Covering period during 1918-1919.

Probably about 200 tons of 30% lead ore mined and packed to shipping point.

11. Expect to produce 50 tons of shipping ore per week and an undetermined amount of mill grade. With an access road and proposed development will be able to mine in greater quanities and handle a much lower grade of ore. Previously the mill grade ore was discarded and is now in dump available for milling when road completed.

12. The ore is in a crushed zone of limestone and makes in cracks and open areas around large boulders. Most of the work was done on the higher grade ore near the surface. Outcroppings of high grade galena occur in a zone about 1000 ft in lengths and varying from a few feet to 150 wide. These outcroppings are not large enough to work from the surface but they do indicate that the lead solutions were present throughout the entire crushed zone and at depth where the movements were more confined should be more continuos, also from the open character of the ground would expect a secondary enrichment also a much higher zinc content. The property is located near a major earth fault (Fredrickson) and a lava flow indicating that likely volcanic origin and of great depth.

end sheet.

General Technical Data
(MF-100) Sheet 5.

12.B.

(1). Assay sheet enclosed.

(2) . The development work is insufficient to give a reliable estimate of ore reserves. Development work will be retarded until an access road is constructed, account unable to get equipment other than hand tools to property. However, there is dump material assaying from 5 to 12% lead and which runs average of 18% after running over 3/4 inch screen. The dumps contain about 500 to 700 tons of material. also I have 15 tons of 18% lead stockpiled which was screened from dump in testing.

From surface indications a considerable amount of mill grade ore could be obtained, however my plans are not to mill until have sufficient millore blocked out to warrant leasing 1 of 3 available mills in this area.

(C). Not a placer mine.

13. Access roads;

Shipping point of Jean, Nev. is 15 miles from property. 7½ miles is asphalt paved, 2½ miles is improved gravel road and 3 miles of road was formerly maintained and used by the Civil aeronautic, the remainer of 2 miles needs constructing. 1½ miles was constructed by me but is not in trucking condition the last ½ mile requires drilling and blasting and few days work with bulldozer. Would require about 2000.00 including labor materials and equipment.

end sheet.

General Technical Data
(MF-100) Sheet 6.

14. Water Supply.

None. Water is extremely scarce in this area and no mine in this district is located near a water supply. All mines are forced to truck ore to mills located at water supply. Nearest water to Mineralking property is 3 miles.

15. No electrical power nearer than 3 miles. Not necessary to use power other than gasoline or diesel.

16. Labor. None employed.

This is a mining community and manpower sufficient for ordinary operations.

17. Equipment and Facilities;

No buildings or equipment on mining property.

I have necessary equipment for operation. I have 2 air compressors, hoist, buckets, mine cars, rail, pipe and other necessary equipment including small truck and pickup truck. All this equipment has been used in previous mining operations. I also have material for constructing loading and storage bins at mine. No camp would be necessary at mine as miners would reside at Goodsprings and would be furnished transportation to and from mine.

18. I

I think everything has been covered. No condition exist in this operation that is unusual to this area.

D.W.Lowe

D.W.LOWE, OWNER MINERALKING MINE.

(*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.

(Name of company)

By S. W. Lowe
(Signature of authorized official)

Apr. 28, 1951
(Date)

Owner
(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-133
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D.C.
MAY 23 8 40 AM '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-1190X

Date received 5/17/51

Participation

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS, NEVADA

Name and address of applicant

Date APRIL 29, 1951

FILL IN THIS BLOCK

Date of application APRIL 29, 1951

Estimated cost $11,810.00

Mineral or metal LEAD, SILVER, ZINC & VANADIUM

Percentage of Government participation 50%

Location of mine YELLOWPINE MINING DIST

GOODSPRINGS, CLARK CO. NEVADA

Date of filing MF-100 APRIL 28, 1951

DMA Docket Number, if available Dma-1190X

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

MAY 21 1951

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.

(Name of company)	By D. W. Lowe (Signature of authorized official)
Apr 29, 1951 (Date)	Owner (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

FORM MF-103

*1,2,3,4,5. All answered MF-100.

6. No encumbrances on Mineralking property.

7. Not lessee.

8. Property idle.

9. one half of cost of project per section 9 M05.

10. Property involved will be Mineralking only. No buildings on property. The Mineralking consists of two lode claims not patented. Each claim 600 ft by 1500 ft.

(B) Mineralking located in Yellowpine mining dist Goodsprings , Clark Co.Nevada.T25S R58 E.Has not been surveyed. Both 10 (a) and (b) are same.

*11,12,13,14. Answered on MF-100.

15. Ore of shipping grade would be hauled approximately 15 miles from mine to Jean Nev UP RR shipping point then shipped to smelter in Utah, which is customary in this district. If sufficient ore was developed to warrant would lease 1 of 3 available mills located 3 to 5 miles distant from the mine. No mine in this district is located near a water source and all have to truck there ore to mill.

*16,17,18. Answered in MF-100.

19. It is my intention to sink to 100 ft level and drift across the ore zone and mine ore above 100 ft. With this advantage I believe the property will then be self supporting and further development carried out at lower depth on earnings from mine. At that stage it will be apparent whether a mill will be profitable. Until this development has been carried out think it would be premature to consider a mill project.

end sheet.

FORM MF-103

20. The exploration will be carried out for Lead, zinc silver and vanadium. The vanadium content is present but at present do not know value or quanity.
The type of ore is Lead galena(sulphide) lead carbonate and zinc carbonate or oxide. The ore occurs in limestone breccia in veins and lenses.

21. I intend to sink from a point beneath a 20 ft shaft to a depth of 100 ft then drift across the ore zone then crosscut to east and west fault which lies about 30 ft north of shaft. The ore zone runs from this fault to about 1000 ft south of shaft. Also the road construction would take 30 days. Total time would be 6 months from time work began.

22. The ore occurs in a crushed zone near a major fault which separates a lava flow and the limestone formation where mine is located indicating possibilities of ore continuing to a great depth. The ore makes in veins and lenses between massive boulders in much the same manner as occured at the Bullion mine nearby. At a greater depth would expect to find the faulting movement more confined and ore more concentrated due to secondary enrichment. Outcroppings of highgrade galena on surface in various places indicate the solutions carrying the ore penetrated a wide area. Had this property been accessible by road would have been developed many years ago. However the necessity of packing equipment and supplies and ore out made it impractical. The ore had to consistently run 25% or better to allow the expense. The waste dumps contain values ranging from 5 to 12% lead and 5 ounzes of silver and when run over a 3/4 inch screen average 18% lead about 5 oz silver.

end sheet.

FORM MF-103

23. 2 miners(and muckers). Wages $12.00 per day.Total $24.00.
1 foreman.Duties as top man running hoist, sharpening tools, tramming waste and other related duties. Wages $15.00 per day.

B. 1 superintendent. These duties will be assumed by me at no wages. There will be considerable work hauling water getting supplies and laying out work and getting equipment repairs from Las Vegas (nearest supply point) also timekeeping and reports which I am familiar with through previous experience.

C. Require 10 days to set up head frame and hoist and install track and car to haul waste at a cost of approximately $500.00 including wages and operating cost.

D. The hoist operator shelter and tool storage structure is inclueded in item C.using material on hand.

E. All equipment needed for operating is owned by me and will be furnished according to Section 9 MO 5.

F. Will be necessary to rent bulldozer and operator for a 10 day period for road construction. Local resident available at $50.00 per day. Total cost $500.00.

G. 1-portable 60 cu.ft.air compressor,jackhammer and hoses at $1.00 per hour.
1-90 cu.ft.air compressor hammer,hoses,&etc at $1.50 per hr.
1-1 ton truck to haul men & supplies at 1.50 per hr.
1-½ ton pickup truck at $1.50 per hr.when necessary to use.
1-mine hoist cable buckets, track and mine car at $1.00 per hr.
There will be gaso supplies powder caps fuse rock bits and other expendable items which will be itemized on following sheet.

end sheet.

FORM MF-103

(H).

ITEMIZED COSTS:

POWDER TO BE USED ON ROAD CONSTRUCTION AND MINE DEVELOPMENT

1/2 ton on road.....$220.00

1½ ton mine.....$660.00

Caps and fuse.....$125.00 .....$1005.00

Gasoline/oil for hoist, compressors and trucks.....$720.00

Repairs to equipment during operation..... $100.00

Rock bits..... $ 65.00

Most of the supplies will be hauled at time men are transported to and from work excepting powder etc which will be purchased delivered at mine.

Bulldozer and operator..... $500.00

Wages 2 men on road construction at $24.00.20days $480.00

Wages 2 men and top man (foreman)sinking 40 days 1560.00

Wages 2 men and top man (foreman)drifting etc25da. 975.00

Industrial compensation costs estimated..... 500.00

TOTAL .....$ 5905.00

The above cost to be matched by mine owner thru equipment rental and own time contributed to be paid thru royalities of ore shipped after development work per Section 9 No 5. There was no allowance for timbering as ground in this territory does not require same only in isolated cases.

(I) Power water etc was figured in above schedule.

24. Road construction 2 men...20 working days

Setting hoist etc	2 men	10	do
Shaft sinking	3 men	40	do
Drifting	3 men and shoot.	25	do.

FORM TP-100

24. First month (20 working days) Road completed to mine.

Cost. Wages(2 men @ 15.00 @ 12)	$540.00	
Powder(1 ton 1st)	420.00	
Caps, fuse, minor expenses.....	100.00	
Gaso & oil.....	125.00	
	1105.00	
Bulldozer rental.....	500.00	
	$ 1605.00	1605.00

Second month. Setting up equipment and sinking inclined shaft to 20 ft.		
Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso.etc.....	125.00	
Other expense.....	100.00	
	765.00	765.00

Third month. Sinking shaft to 70 ft.		
Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso.etc.....	125.00	
Other expense..powder etc.....	100.00	
	765.00	765.00

Fourth month. Finish shaft work and drifting across ore zone..20.ft.		
Wages (2 men) 40 shifts.....	540.00	
(1 man) 10 shifts.....	120.00	
Gaso.etc.....	125.00	
Other expenses.....	100.00	
	885.00	885.00

Fifth month. Drifting across ore zone 60 ft..(total 80 ft).....		
Cost. Wages (3 men)..60 shifts.....	700.00	
Gaso.etc.....	125.00	
Other expenses.....	100.00	
	1005.00	1005.00

Sixth month. Complete drift and crosscuts		
Total expense.....	800.00	800.00

Grand Total..... $ 5905.00

D. W. Lane

D. W. LANE, C. E. N. R. MINE ENGINEER

TELEPHONE 3-3302

Hand Sample Serial 11410

Mine D.W.Lowe

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, JR., Secretary

Salt Lake City 11, Utah

RESULTS PER TON OF 2000 POUNDS

Dec.2,1950

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
Mineral King $101												
	None	0.7	3.8			0.2						

Considerable tonnage of this type with small veins of galena running thru. This material lowest grade ore bearing material on property. Taking full face of ore would run approximate average of 6½ pct lead. according to various panning tests. If sufficient tonnage would make profitable milling operation.

Remarks Surface outcrop of low grade adjacent to small vein galena

Charges $ 3.00 Paid

J. V. Sadler

TELEPHONE 3-3302

Hand Sample Serial 16523-5

Mine D.W.Lowe

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, JR., Secretary

RESULTS PER TON OF 2000 POUNDS

April 2,1951

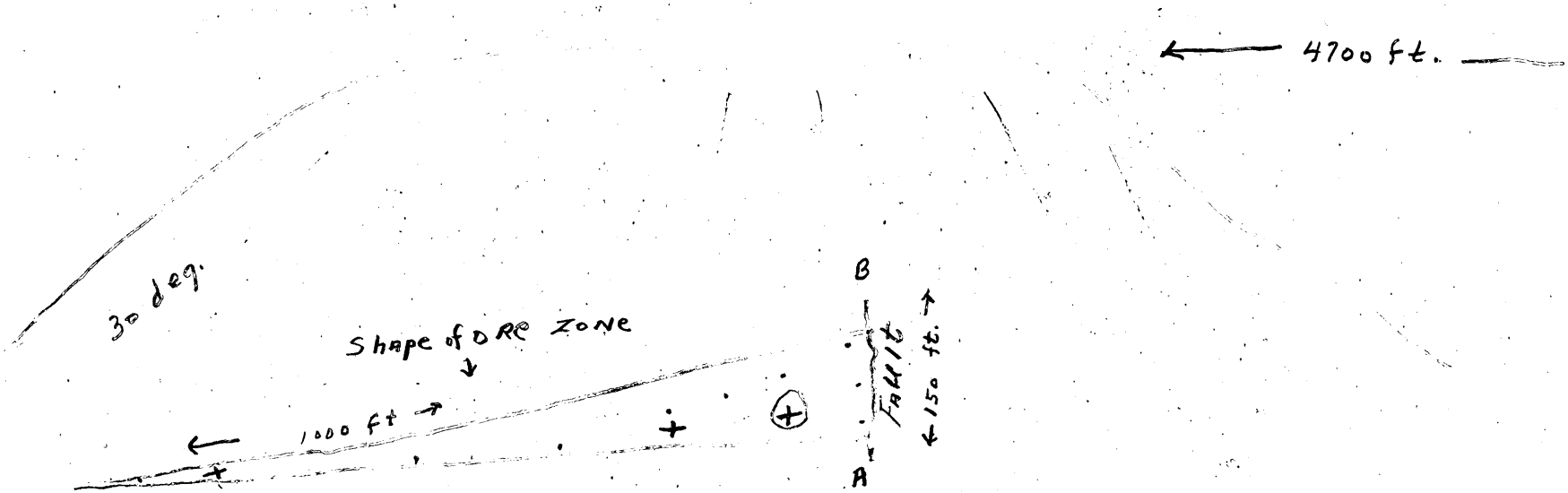
Salt Lake City 11, Utah

NO.	GOLD Ozs. per Ton	SILVER Ozs. per ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
S-102	Trace	4.2	17.5			6.4						
S-103	Trace	3.3	18.1									
S-104	Trace	2.2	7.5									

Remarks S-102 and S-103 Material run over 3/4" screen.
S-104 same material before run over screen.

Charges $ 7.00 Paid

Propose to sink shaft ⊕ then drift across
ore zone A to B.
(+) Indicates workings of Mineral King.
Ore cropping on surface at various
locations indicated by (·)



MINERAL King.

FIRST NATIONAL BANK
OF
NEVADA

LAS VEGAS BRANCH

LAS VEGAS, NEVADA
April 19, 1951

Mr. D. W. Lowe
Goodsprings
Nevada

Dear Mr. Lowe:

This is to inform you that your application for a $5,000.00 loan to develop your Mineral King Mining Claim has been declined.

Very truly yours,

T. O. Dickerson
Assistant Cashier

TOD/mah

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
8 40 AM '51
OCT 23

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Lma-1190 X

Date received 5/17/51

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS NEVADA

Name and address of applicant

Date APRIL 28, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

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

General Technical Data
(MF-100)

1. Materials produced;

   (a). Lead and silver.(Probably zinc).

   (b). Zinc and vanadium.

2. Mineralking. Lode mine. Formerly named the Luck Bug.

   (a). 2 shafts. 1 vertical 20 ft. 1 incline 15 ft.

   (b).1 tunnel 75 ft. 3 short crosscuts totaling 50 ft.

   (c). 1 inclined raise to surface 15 ft.

   (d). There are several prospecting pits dug on 5 ore outcroppings on surface. The mine is dry with no possibility of flooding at any conceivable depth.

3. (a). 16 miles west of Jean Nev UP RR shipping point. 7 miles south of Goodsprings,Nev.(these distances are via auto roads not airline.

   (b). Yellowpine mining dist.

   (c). T.25 S. R.58 E. Goodsprings Nev.

   (d). Clark county Nevada.

4. (a). Property idle.

   (b). Owner.

5. Property has not produced since about 1919 or thereabout. Production would commence six months after beginning of exploration project.

end of sheet.

General Technical Data
(MF-100) Sheet 2.

6. Experience of operator.

I, D.W.Love, have operated several mines in this area during the past six years. The May Kirby (lead and iron) the Clemintina (gold) The Forty Six(Dawn Mine). The Forty Six was operated with the aid of the government during the period after the war when the premium plan or bonus was in effect.

In addition I have been a partner in numerous operations as the business manager and supplying the properties through a general store that I operated for several years. At present I am operating the Goodsprings Hotel as Owner and proprietor and engaging in other projects as well.

7.(a). The previous exploration was mainly taking out high grade lead silver ore and as soon as exhausted or became unprofitable abandoned. Thre is about 200 ft of work overall. No records exist of the property but a fairly accurate estimate can be made of previous production. The dumps (3) contain between 500 to 700 tons of material which contain lead ranging from 5 to 12 percent. This material when run over 3/4 inch screen yeilds an average of 18% lead and 5ounces silver. I have run and stockpiled 15 tons of this material on the property.

I would estimate about 5 carloads of this material could shipped.

Since all the ore shipped was packed by animals out of property would estimated 200 tons of 25 to 40% lead was shipped and when high grade surface veins exhausted production stopped due to high cost of operating.

end sheet.

General Technical Data
(MP-100) Sheet 3.

7.(b). Bullion Mine 1 mile (airline) Production according to D.P.Hewitt report 1913-1927 total 4498 tons. Also during period 1916-1924 report shows 2170 tons lead ore netting over $95,000 and 564 tons zinc netting over $15,000. Total net according to local sources over entire operation 1907 to present in excess of 250,000 dollars.

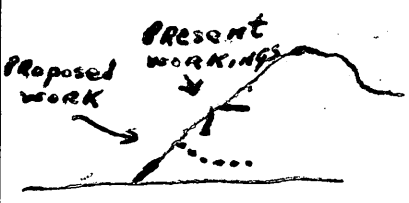
Mountain top Mine ½ mile (airline) 6500 tons of lead zinc silver ore during period 1912-1926 (Hewitts report).

There has been considerable production since that time and also both the properties which are near my property are potential producers.

(c). Enclosed and attached are assay report of test made of property. As far as known no geological report or examination by an engineer has been made.

However this property is well thought of locally and has been idle account no road was thought feasable. About 3 years ago the US Govt. built a road to an airplane beacon light which ended approximately 2 miles from this property and by extending this road (now abandoned) to mine would make further exploration and mining feasable.

Reccomended exploration and development.



Extension of road at cost of approximately $2000.00.

Sinking shaft to depth of 100 ft from a point beneath a 20 ft shaft then drifting from 100 ft level to cut width of ore zone and short crosscuts from this drift to ore shoots approximate cost $8,000.00. This cost includes labor material and cost of transportation to mine and equipment rental.

end sheet.

General Technical Data
(MP-100) Sheet 4.

8. None.

9. None.

10. Production;

Estimated. Covering period during 1918-1919.

Probably about 200 tons of 30% lead ore mined and packed to shipping point.

11. Expect to produce 50 tons of shipping ore per week and an undetermined amount of mill grade. With an access road and proposed development will be able to mine in greater quantities and handle a much lower grade of ore. Previously the mill grade ore was discarded and is now in dump available for milling when road completed.

12. The ore is in a crushed zone of limestone and makes in cracks and open areas around large boulders. Most of the work was done on the higher grade ore near the surface. Outcroppings of high grade galena occur in a zone about 1000 ft in lengths and varying from a few feet to 150 wide. These outcroppings are not large enough to work from the surface but they do indicate that the lead solutions were present throughout the entire crushed zone and at depth where the movements were more confined should be more continuos, also from the open character of the ground would expect a secondary enrichment also a much higher zinc content. The property is located near a major earth fault (Frodrickson) and a lava flow indicating that likely volcanic origin and of great depth.

end sheet.

General Technical Data
(MF-100) Sheet 5.

12.B.

(1). Assay sheet enclosed.

(2) . The development work is insufficient to give a reliable estimate of ore reserves. Development work will be retarded until an access road is constructed, account unable to get equipment other than hand tools to property. However, there is dump material assaying from 5 to 12% lead and which runs average of 18% after running over 3/4 inch screen. The dumps contain about 500 to 700 tons of material. also I have 15 tons of 18% lead stockpiled which was screened from dump in testing.

From surface indications a considerable amount of mill grade ore could be obtained, however my plans are not to mill until have sufficient millore blocked out to warrant leasing 1 of 3 available mills in this area.

(C). Not a placer mine.

13. Access roads;

Shipping point of Jean, Nev.is 15 miles from property. 7½ miles is asphalt paved, 2½miles is improved gravel road and 3 miles of road was formerly maintained and used by the Civil aeronautic, the remainer of 2 miles needs constructing. 1½ miles was constructed by me but is not in trucking condition the last ½ mile requires drilling and blasting and few days work with bulldozer. Would require about 2000.00 including labor materials and equipment.

General Technical Data
(MF-100) Sheet 6.

14. Water Supply.

None. Water is extremely scarce in this area and no mine in this district is located near a water supply. All mines are forced to truck ore to mills located at water supply. Nearest water to Mineralking property is 3 miles.

15. No electrical power nearer than 3 miles. Not necessary to use power other than gasoline or diesel.

16. Labor. None employed.

This is a mining community and manpower sufficient for ordinary operations.

17. Equipment and Facilities;

No buildings or equipment on mining property.

I have necessary equipment for operation. I have 2 air compressors, hoist, buckets, mine cars, rail, pipe and other necessary equipment including small truck and pickup truck. All this equipment has been used in previous mining operations. I also have material for constructing loading and storage bins at mine. No camp would be necessary at mine as miners would reside at Goodsprings and would be furnished transportation to and from mine.

18. I

I think everything has been covered. No condition exist in this operation that is unusual to this area.

D.W.Lowe

D.W.LOWE, OWNER MINERALKING MINE.

(*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.

(Name of company)

By S. W. Lowe
(Signature of authorized official)

Apr. 28, 1951
(Date)

Owner
(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-1190

Date received 5/17/51

Participation

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS NEVADA

Name and address of applicant

Date APRIL 29, 1951

FILL IN THIS BLOCK

Date of application APRIL 29, 1951 Estimated cost $11,810.00

Mineral or metal Lead, Silver, Zinc & Vanadium Percentage of Government participation 50%

Location of mine YELLOWPINE MINING DIST

GOODSPRINGS, CLARK CO., NEVADA

Date of filing MF-100 APRIL 28, 1951 DMA Docket Number, if available dma-1190X

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.

(Name of company)	By A. W. Lowe (Signature of authorized official)
Apr 29, 1951 (Date)	Owner (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

FORM MF-103

*1,2,3,4,5. All answered MF-100.

6. No encumbrances on Mineralking property.

7. Not lessee.

8. Property idle.

9. one half of cost of project per section 9 M05.

10. Property involved will be Mineralking only. No buildings on property. The Mineralking consists of two lode claims not patented. Each claim 600 ft by 1500 ft.

(B) Mineralking located in Yellowpine mining dist Goodsprings , Clark Co.Nevada.T25S R58 E.Has not been surveyed. Both 10 (a) and (b) are same.

*11,12,13,14. Answered on MF-100.

15. Ore of shipping grade would be hauled approximately 15 miles from mine to Jean Nev UP RR shipping point then shipped to smelter in Utah, which is customary in this district. If sufficient ore was developed to warrant would lease 1 of 3 available mills located 3 to 5 miles distant from the mine. No mine in this district is located near a water source and all have to truck there ore to mill.

*16,17,18. Answered in MF-100.

19. It is my intention to sink to 100 ft level and drift across the ore zone and mine ore above 100 ft. With this advantage I believe the property will then be self supporting and further development carried out at lower depth on earnings from mine. At that stage it will be apparent whether a mill will be profitable. Until this development has been carried out think it would be premature to consider a mill project.

end sheet.

20. The exploration will be carried out for Lead, zinc silver and vanadium. The vanadium content is present but at present do not know value or quanity.
The type of ore is Lead galena(sulphide) lead carbonate and zinc carbonate or oxide. The ore occurs in limestone breccia in veins and lenses.

21. I intend to sink from a point beneath a 20 ft shaft to a depth of 100 ft then drift across the ore zone then crosscut to east and west fault which lies about 30 ft north of shaft. The ore zone runs from this fault to about 1000 ft south of shaft. Also the road construction would take 30 days. Total time would be 6 months from time work began.

22. The ore occurs in a crushed zone near a major fault which separates a lava flow and the limestone formation where mine is located indicating possibilities of ore continuing to a great depth. The ore makes in veins and lenses between massive boulders in much the same manner as occured at the Bullion mine nearby. At a greater depth would expect to find the faulting movement more confined and ore more concentrated due to secondary enrichment. Outcroppings of highgrade galena on surface in various places indicate the solutions carrying the ore penetrated a wide area. Had this property been accessible by road would have been developed many years ago. However the necessity of packing equipment and supplies and ore out made it impractical. The ore had to consistently run 25% or better to allow the expense. The waste dumps contain values ranging from 5 to 12% lead and 5 ounces of silver and when run over a 3/4 inch screen average 18% lead about 5 oz silver.

end sheet.

FORM MF-103

23. 2 miners(and muckers). Wages $12.00 per day.Total $24.00.
1 foreman.Duties as top man running hoist, sharpening tools, tramming waste and other related duties. Wages $15.00 per day.

B. 1 superintendent. These duties will be assumed by me at no wages. There will be considerable work hauling water getting supplies and laying out work and getting equipment repairs from Las Vegas (nearest supply point) also timekeeping and reports which I am familiar with through previous experience.

C. Require 10 days to set up head frame and hoist and install track and car to haul waste at a cost of approximately $500.00 including wages and operating cost.

D. The hoist operator shelter and tool storage structure is included in item C.using material on hand.

E. All equipment needed for operating is owned by me and will be furnished according to Section 9 EO 5.

F. Will be necessary to rent bulldozer and operator for a 10 day period for road construction. Local resident available at $50.00 per day. Total cost $500.00.

G. 1portable 60 cu.ft.air compressor,jackhammer and hoses at $1.00 per hour.
1-90 cu.ft.air compressor hammer,hoses,&etc at $1.50 per hr.
1-1 ton truck to haul men & supplies at 1.50 per hr.
1-½ ton pickup truck at $1.50 per hr.when necessary to use.
1-mine hoist cable buckets, track and mine car at $1.00 per hr.
There will be gasoline supplies powder caps fuse rock bits and other un-expendable items which will be itemized on following sheet.

end sheet.

FORM MF-103

(H).

ITEMIZED COSTS:

POWDER TO BE USED ON ROAD CONSTRUCTION AND MINE DEVELOPMENT

1/2 ton on road.....$220.00

1½ ton mine.....$660.00

Caps and fuse.....$125.00 .....$1005.00

Gasoline/oil for hoist, compressors and trucks.....$720.00

Repairs to equipment during operation..... $100.00

Rock bits..... $ 65.00

Most of the supplies will be hauled at time men are transported to and from work excepting powder etc which will be purchased delivered at mine.

Bulldozer and operator..... $500.00

Wages 2 men on road construction at $24.00.20days $480.00

Wages 2 men and top man (foreman)sinking 40 days 1560.00

Wages 2 men and top man (foreman)drifting etc25da. 975.00

Industrial compensation costs estimated..... 500.00

TOTAL .....$ 5905.00

The above cost to be matched by mine owner thru equipment rental and own time contributed to be paid thru royalities of ore shipped after development work per Section 9 No 5. There was no allowance for timbering as ground in this territory does not require same only in isolated cases.

(I) Power water etc was figured in above schedule.

24. Road construction 2 men...20 working days

Setting hoist etc	2 men	10	do
Shaft sinking	3 men	40	do
Drifting	3 men	25	do.

cmd sheet.

FORM MF-100

24. First month (20 working days) Road completed to mine.

Cost. Wages (2 men $15. & $12)	$540.00	
Powder (1 ton lot)	420.00	
Caps, fuse, minor expenses.....	100.00	
Gaso & oil.....	125.00	
	1185.00	
Bulldozer rental.....	500.00	
	$ 1685.00	1685.00
Second month. Setting up equipment and sinking inclined shaft to 20 ft.		
Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso. etc.....	125.00	
Other expense.....	100.00	
	765.00	765.00
Third month. Sinking shaft to 70 ft.		
Cost. Wages (2 men) 40 shifts.....	540.00	
Gaso. etc.....	125.00	
Other expense..powder etc.....	100.00	
	765.00	765.00
Fourth month. Finish shaft work and drifting across ore zone..20.ft.		
Wages (2 men) 40 shifts.....	540.00	
(1 man) 10 shifts.....	120.00	
Gaso. etc.....	125.00	
Other expenses.....	100.00	
	885.00	885.00
Fifth month. Drifting across ore zone 60 ft..(total 80 ft).....		
Cost. Wages (3 men)..60 shifts.....	780.00	
Gaso. etc.....	125.00	
Other expenses.....	100.00	
	1005.00	1005.00
Sixth month. Complete drift and crosscuts		
Total expense.....	800.00	800.00
Grand Total.....		$ 5905.00

D.W. Lowe

D.W. LOWE, OWNER, MINERALKING

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-1190 X

Date received 5/17/51

D.W.LOWE
GOODSPRINGS HOTEL
GOODSPRINGS, NEV.

Name and address of applicant

Date APRIL 28, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

General Technical Data
(MF-100)

1. Materials produced;

(a). Lead and silver.(Probably zinc).

(b). Zinc and vanadium.

2. Mineralking. Lode mine. Formerly named the Much Bug.

(a). 2 shafts. 1 vertical 20 ft. 1 incline 15 ft.

(b).1 tunnel 75 ft. 3 short crosscuts totaling 50 ft.

(c). 1 inclined raise to surface 15 ft.

(d). There are several prospecting pits dug on 5 ore outcroppings on surface. The mine is dry with no possibility of flooding at any conceivable depth.

3. (a). 16 miles west of Jean Nev UP ~~HB~~ shipping point.
7 miles south of Goodsprings,Nev.(these distances are via auto roads not airline.

(b). Yellowpine mining dist.

(c). T.25 S. R.58 E. Goodsprings Nev.

(d). Clark county Nevada.

4. (a). Property idle.

(b). Owner.

5. Property has not produced since about 1919 or thereabout. Production would ~~[illegible]~~ commence six months after beginning of exploration project.

end of sheet.

General Technical Data
(DF-100) Sheet 2.

6. Experience of operator.

I, D.W.Lowe, have operated several mines in this area during the past six years. The May Kirby (lead and iron) the Glomintina (gold) The Forty Six(Dawn Mine). The Forty Six was operated with the aid of the government during the period after the war when the premium plan or bonus was in effect.

In addition I have been a partner in numerous operations as the business manager and supplying the properties through a general store that I operated for several years. At present I am operating the Goodsprings Hotel as Owner and proprietor and engaging in other projects as well.

7.(a). The previous exploration was mainly taking out high grade lead silver ore and as soon as exhausted or became unprofitable abandoned. There is about 200 ft of work overall. No records exist of the property but a fairly accurate estimate can be made of previous production. The dumps (3) contain between 500 to 700 tons of material which contain lead ranging from 5 to 12 percent. This material when run over 3/4 inch screen yeilds an average of 18% lead and 5 ounces silver. I have run and steekpiled 15 tons of this material on the property.

I would estimate about 5 carloads of this material could shipped.

Since all the ore shipped was packed by animals out of property would estimated 200 tons of 25 to 40% lead was shipped and when high grade surface veins exhausted production stopped due to high cost of operating.

end sheet.

General Technical Data
(MF-100) Sheet 3.

7.(b). Bullion Mine 1 mile (airline) Production according to D.F.Hewitt report 1913-1927 total 4498 tons. Also during period 1916-1924 report shows 2170 tons lead ~~ore~~ netting over $95,000 and 564 tons zinc netting over $15,000. Total net according to local sources over entire operation 1907 to present in excess of 250,000 dollars.

Mountain top Mine ½ mile (airline) 6500 tons of lead zinc silver ore during period 1912-1926 (Hewitts report).

There has been considerable production since that time and also both the properties which are near my property are potential producers.

(c). Enclosed and attached are assay report of test made of property. As far as known no geological report or examination by an engineer has been made.

However this property is well thought of locally and has been idle account no road was thought feasable. About 3 years ago the US Govt. built a road to an airplane beacon light which ended approximately 2 miles from this property and by extending this road (now abandoned) to mine would make further exploration and mining feasable.

Recommended exploration and development.

Extension of road at cost of approximately $2000.00.

Sinking shaft to depth of 100 ft from a point beneath a 20 ft shaft then drifting from 100 ft level to cut width of ore zone and short crosscuts from this drift to ore shoots approximate cost $8,000.00. This cost includes labor material and cost of transportation to mine and equipment rental.

and shoot.

General Technical Data
(MT-100) Sheet 4.

8. None.

9. None.

10. Production;

Estimated. Covering period during 1918-1919.

Probably about 200 tons of 30% lead ore mined and packed to shipping point.

11. Expect to produce 50 tons of shipping ore per week and an undetermined amount of mill grade. With an access road and proposed development will be able to mine in greater quantities and handle a much lower grade of ore. Previously the mill grade ore was discarded and is now in dump available for milling when road completed.

12. The ore is in a crushed zone of limestone and makes in cracks and open areas around large boulders. Most of the work was done on the higher grade ore near the surface. Outcroppings of high grade galena occur in a zone about 1000 ft in lengths and varying from a few feet to 150 wide. These outcroppings are not large enough to work from the surface but they do indicate that the lead solutions were present throughout the entire crushed zone and at depth where the movements were more confined should be more continuous, also from the open character of the ground would expect a secondary enrichment also a much higher zinc content. The property is located near a major earth fault (Fredrickson) and a lava flow indicating that likely volcanic origin and of great depth.

? ETM

fault movement caused mineralization?

and sheet.

General Technical Data
(MF-100) Sheet 5.

12.B.

(1). Assay sheet enclosed.

(2) . The development work is insufficient to give a reliable estimate of ore reservoe. Development work will be retarded until an access road is constructed, account unable to get equipment other than hand tools to property. However, there is dump material averaging from 5 to 12% load and which runs average of 10% after running over 3/4 inch screen. The dumps contain about 500 to 700 tons of material. also I have 15 tons of 10% load stockpiled which was screened from dump in testing.

From surface indications a considerable amount of mill grade ore could be obtained, however my plans are not to mill until have sufficient millore blocked out to warrant leasing 1 of 3 available mills in this area.

(C). Not a placer mine.

13. Access roads;

Shipping point of Joan, Nev. is 15 miles from property. 7½ miles is asphalt paved, 2½miles is improved gravel road and 3 miles of road was formerly maintained and used by the Civil aeronautic, the remainer of 2 miles needs constructing. 1½ miles was constructed by me but is not in tracking condition the last ½ mile requires drilling and blasting and few days work with bulldozer. Would require about 2000.00 including labor materials and equipment.

General Technical Data
(WF-100) Sheet 6.

14. Water Supply.

None. Water is extremely scarce in this area and no mine in this district is located near a water supply. All mines are forced to truck ore to mills located at water supply. Nearest water to Mineralking property is 3 miles.

15. No electrical power nearer than 3 miles. Not necessary to use power other than gasoline or diesel.

16. Labor. None employed.

This is a mining community and manpower sufficient for ordinary operations.

17. Equipment and Facilities;

No buildings or equipment on mining property.

I have necessary equipment for operation. I have 2 air compressors, hoist, buckets, mine cars, rail, pipe and other necessary equipment including small truck and pickup truck. All this equipment has been used in previous mining operations. I also have material for constructing loading and storage bins at mine. No camp would be necessary at mine as miners would reside at Goodsprings and would be furnished transportation to and from mine.

18. I think everything has been covered. No condition exist in this operation that is unusual to this area.

D. W. Lowe

D.W.LOWE, OWNER MINERALKING MINE.

(*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)					

~~D. W. LOWE~~
~~GOODSPRINGS HOTEL~~
~~GOODSPRINGS, NEV.~~

(*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.

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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.

(Name of company)

By D. W. Lowe
(Signature of authorized official)

April 28, 1951
(Date)

Owner
(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.

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