DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 416 X

DO NOT DETACH THIS SLIP

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

This document has been recorded as

EXPLORATION LOAN

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

Routing Slip

To:	SUPPLY DIVISION	Date	SEP 5 1951
To:	Reports and Records	Date	SEP 7 1951
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

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

SEP 7 1951

Re: DMA-416X

Lead Mountain Mine
San Bernardino County, California
Exploration Loan - $25,000
Lead, Zinc, Barite

a.e.c.

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Chief, Lead Zinc Branch

Subject: Denial of exploration loan.

The applicant requested an exploration loan of $25,000 for diamond drilling and minor rehabilitation work at the Lead Mountain Mine, San Bernardino County, California.

The mine was examined on July 8 and 9, 1951 by the Field Team, Region III, and it's report of the examination recommends denial of the loan. The Field Team's conclusions are summarized as follows:

1. The probability of developing a large tonnage of ore is poor.

2. Barite is the principal ore mineral, lead constitutes less than 1% and zinc less than 4% of the ore.

3. Extraction of the lead and zinc may render the barite unmarketable thus making the proposal less feasible economically.

4. Barite is not on the current list of critical and strategic minerals.

The Lead Zinc Branch concurs with the recommendation of the Field Team that the application for an exploration loan be denied.

Returned herewith is the following docket material:

two copies of Field Team report and covering letter on D.M.A. "Review of Application for Exploration Assistance"

two copies Form MF-103 and answers

correspondence from applicant.

T. P. Billings, Chief
Lead-Zinc Branch

Approved

Director, Supply Division

FILE COPY
350 SURNAME:

Campbell (ETM)
McKnight
Billingsley
Bishop

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

SEP 7 1951

Re: DMA-416X

Lead Mountain Mine
San Bernardino County, California
Exploration Loan - $25,000
Lead, Zinc, Barite

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Chief, Lead Zinc Branch

Subject: Denial of exploration loan.

The applicant requested an exploration loan of $25,000 for diamond drilling and minor rehabilitation work at the Lead Mountain Mine, San Bernardino County, California.

The mine was examined on July 8 and 9, 1951 by the Field Team, Region III, and it's report of the examination recommends denial of the loan. The Field Team's conclusions are summarized as follows:

1. The probability of developing a large tonnage of ore is poor.

2. Barite is the principal ore mineral, lead constitutes less than 1% and zinc less than 4% of the ore.

3. Extraction of the lead and zinc may render the barite unmarketable thus making the proposal less feasible economically.

4. Barite is not on the current list of critical and strategic minerals.

The Lead Zinc Branch concurs with the recommendation of the Field Team that the application for an exploration loan be denied.

Returned herewith is the following docket material:
two copies of Field Team report and covering letter on D.M.A. "Review of Application for Exploration Assistance"
two copies Form MF-103 and answers
correspondence from applicant.

B 9/7

T. P. Billings, Chief
Lead-Zinc Branch

Approved

Director, Supply Division

Copies to: H. C. Miller, Region III (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4214 GSA
R. H. Mote
Dir. r. file 4214 GSA
Br. r. file 4214 GSA
DMA Docket files

ABCampbell:rw
G: 8/31/51

FILE COPY
SURNAME: 350

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

Campbell (ETM)
McKnight
Billings
Bishop

SEP 7 1951

Re: DMA-416X

Mr. O. H. Griggs
1903 Outpost Drive
Hollywood 28, California

Dear Mr. Griggs:

Your application (DMA-416X) for an exploration loan of $25,000 (Government participation, $12,500) for diamond drilling and rehabilitation work at the Lead Mountain Mine, San Bernardino County, California, has again been reviewed by the Defense Minerals Administration, after receipt of a report made on your property by a Government mining geologist.

The report indicates that barite is the chief ore mineral. The Defense Production Act of 1950 makes no provision for the encouragement of the production of barite. In addition, the possibilities of proving significant amounts of lead and zinc ore reserves by the exploration program which you propose are not great enough to warrant the expenditure of the Federal funds requested. I regret, therefore, that your application for exploration assistance cannot be approved.

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

Very truly yours,

SIGNED BY
9/7

Tom Lyon
Tom Lyon, Director
Supply Division

ABCampbell:emp
G 9-4-51
Copies to: H. C. Miller, Region III (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports and Records
Directos r. file 4214 GSA
Br. r. file 4214 GSA
Administrators r. file
DMA docket files

UNITED STATES
DEPARTMENT OF THE INTERIOR

~~BUREAU OF MINES~~
~~REGION III~~
DEFENSE MINERALS ADMINISTRATION

OFFICE OF
~~REGIONAL DIRECTOR~~
Executive Officer
DMA Field Team
Region III

1012 Flood Bldg.
870 Market Street
~~MISSION APPRAISERS BLDG.~~,
~~630 SANSOME STREET~~,
SAN FRANCISCO ~~1~~, CALIF.
2

August 14, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, DMA, Washington 25, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: O. H. Griggs for Lead Mountain Mines, Crescent Mills, Calif. Docket DMA-416X

Reference is to your subject "Review of Application for Exploration Assistance" dated June 20.

Attached are four copies of a report, "DMA-416X, Lead Mountain Mine, San Bernardino County, California (Barite-Zinc-Lead)," by William P. Irwin, Geologist, U. S. Geological Survey, dated August 10, 1951.

Mr. Irwin recommends that the requested loan not be granted as the probability of discovering a deposit of lead-zinc ore commensurate with the cost ($25,000) of exploration is poor. It also appears quite likely that serious problems may arise in the metallurgy of the ore.

Docket file DMA-416X is returned herewith.

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

Attachments

Copy to: E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 20 1951

AUG 20 1951

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-416x, Lead Mountain Mine
San Bernardino County, California
(Barite-Zinc-Lead)

William P. Irwin, Geologist
U. S. Geological Survey

August 10, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 20 1951

DMA-416x, Lead Mountain Mine
San Bernardino County, California
(Barite-Zinc-Lead)

Introduction

The Lead Mountain Mine was examined at the request of Mr. Tom Lyon, Chairman, Coordinating Committee, Defense Minerals Administration. Mr. O. H. Griggs had applied for Government assistance in a $25,000 program to explore the mine. William P. Irwin of the Geological Survey examined the mine July 8, and 9, 1951, in the company of Mr. J. P. Lloyd, who has a financial interest in the mine. A Brunton-and-tape map of the main level of the underground workings was made at a scale of 1 inch equals 50 feet, and four samples were taken in the underground workings.

The deposit contains 9,000 tons of indicated ore with an approximate average grade of 64.8 percent $BaSO_4$, 0.7 percent Pb., 3.8 percent Zn, and 0.95 ounces of Ag. per ton. The probability of discovering a tonnage of ore commensurate with the proposed cost of exploration is poor. Benefication of the ore to extract the metal values may make the barite unmarketable, and thereby render the ore uneconomic. Exploration of the deposit is not recommended.

Location

The mine is high on the southern slope of an eastward-trending ridge in sec. 36, T. 10 N., R. 1 W., SBBM, about 5 miles east of Barstow, San Bernardino County, California. It is accessible by 2.6 miles of gravel road that extends northeasterly from U. S. route 91 at a point 3.6 miles from the center of Barstow.

Geology

The predominant country rock in the vicinity of the mine is porphyritic andesite and light gray to greenish tuff. The andesite caps the top of the eastward trending ridge, overlies the tuff, and may lie in the trough of an eastward trending open fold. On the south side of the ridge, the contact between andesite and tuff dips north at an average of about 40°; on the north side, the dips range from gently south, through horizontal, to gently north. The andesite is brecciated at its contact with the underlying tuff on the south side of the ridge. The brecciation appears to be due largely to shearing, but may be volcanic in part. The character of the contact on the north side of the ridge could not be determined.

Barium-, lead-, and zinc-bearing minerals replace andesite breccia and fill cavities in the breccia zone adjacent to the tuff on the south side of the ridge. The zone averages about 15 feet in thickness.

The ore minerals appear to be mainly barite, calamine, cerrusite, and galena. Silver chlorides are reported to be present.

Workings

Several tunnels, inclined shafts, and open cuts, open the breccia zone for about 1000 feet along the strike on the south side of the ridge. The main tunnel heads N 20 E in tuff, and crosscuts the contact between tuff and andesite breccia 155 feet from the portal (see plan of main level). Drifts in the ore zone extend east and west from the tunnel for a total length of 215 feet. The ore zone above the level of the drifts is almost completely stoped to the surface. The stopes, as well as the short shafts that connect the stopes to the surface, are inclined at an average of 35 degrees. A lower tunnel in tuff heads S 4 W from the north side of the ridge. It is 1300 feet long, and at its face a vertical raise is reported to extend 240 feet to the foot of a 40-degree raise in the ore zone. The 40-degree raise in the ore zone connects to the east drift, a horizontal distance of about 40 feet to the south.

The workings are dry and in good condition in general. All are accessible except the vertical raise and the innermost part of the lower tunnel. The upper end of the raise is open, but no ladder was available. A cave in the innermost part of the tunnel blocks the foot of the raise.

Ore Reserves

Ore is exposed at many places in the workings in the southern half of the ridge, in the form of small pillars and relatively thin layers in the backs of the workings in the ore zone. The north walls of the drifts are in ore that probably extends down the dip of the breccia zone. All mineable ore above the drifts has been mined out.

The ore zone in the westerly drift thins considerably to the west, and near the west end is displaced in an obscure manner by a fault. Much of the ore zone in the west end consists of massive brown calcite. In the easterly drift, the ore zone grades into breccia of lower grade at the east end.

The ore zone grades down the dip into sparsely mineralized andesite breccia. The inclined raise that extends from the top of the vertical raise is in the ore for the greater part. In the small stope at the bottom of the inclined raise, however, the mineralization is relatively weak and erratic, and much of the andesite breccia is nearly barren.

According to the docket submitted by the applicant (see sec. 16A), the bottom of the vertical raise is in ore. Also, a cross section submitted by the applicant shows the entire vertical raise in ore. This is in disagreement with Irwin's concept of the geology of the mine. Irwin believes that the top of the vertical raise is probably near the footwall

contact of the ore zone, and that the vertical raise is in barren tuff (see sketch section). The inaccessibility of the raise and innermost part of the lower tunnel precludes clarification of these points.

Four channel samples were cut to determine the general tenor of the ore, and to check the sampling results reported by the applicant (see plan of underground workings). The samples were cut normal to the plane of the ore zone, and averaged about 5 pounds each. The following are the assay results as determined by the Bureau of Mines, Hyrdometallurgical and Ore Dressing Branch, Reno, Nevada.

Sample No.	% $BaSO_4$	%Pb.	%Zn.	Oz.Au/T	Oz.Ag/T	Width
1	76.6	*0.1	3.8	Trace	0.35	6.0 ft.
2	72.2	0.1	4.1	Trace	0.55	5.0 ft.
3	25.6	0.1	1.4	Trace	1.60	3.0 ft.
4	50.5	1.5	3.7	Trace	1.70	7.5 ft.

(* less than)

The assay results differ considerably from those reported by the applicant, particularly in regard to the lead content of the ore. Samples nos. 1, 2 and 4 were taken approximately along the same level of the ore zone. The ore zone at that level is an average of about 15 feet thick. The samples were cut across only a part of the thickness, and are believed to be somewhat higher than the average grade over the entire thickness of the ore zone. Sample no. 3 was cut in one of the richest parts of the ore zone near the top of the vertical raise. There the mineralization is erratic, and the assay value of sample no. 3 is much higher than the average for the entire thickness of the ore zone.

The ore zone above the main level appear to be almost completely mined out. Extension of mineable-grade material along the strike to the east and west of the drifts is highly problematical. Down the dip of the ore zone, the cut-off between ore and non-ore appears to be fairly sharply defined at a level about 10 feet above the top of the vertical raise.

The block of ground between the drifts and a level about 10 feet above the top of the vertical raise is believed to be the only ore reserve. Making the most favorable assumptions, this block of ground contains 9,000 tons of indicated ore with an approximate average grade of 64.8 percent $BaSO_4$, 0.7 percent Pb., 3.8 percent Zn., and 0.95 ounces of Ag. per ton. The assumptions used are (1) the block is 150 feet long and 40 feet wide, measured in the plane of the ore zone, and averages 15 feet in thickness, (2) the average grade of the block is the weighted average of samples nos. 1, 2, and 4, and (3) 10 cubic feet of ore weighs 1 ton.

The deposit was discussed with Mr. Oliver E. Bowen, Jr, of the California Division of Mines, who gained knowledge of the district while mapping the Barstow quadrangle nearby. According to Bowen, the Lead Mountain deposit is similar in occurrence and mineralogy to several others in the same general area. One characteristic of these

deposits is that the mineralization dies out at a depth of a few hundred feet. He states further that benefication of the ore, to remove the metal-bearing minerals, renders the barite unmarketable. The metallurgy of the Lead Mountain ore should be investigated before any exploration is considered.

Exploration

The applicant's plans for exploring the property are not known. Mr. Lloyd, sent by Mr. Griggs as his representative during the examination, is not a mining man, and was ignorant of the exploration plans. Considering the diverse views of the structure of the deposit, held by Griggs and Irwin, it is probable that their ideas as to the proper procedure for exploring the property are at a wide variance.

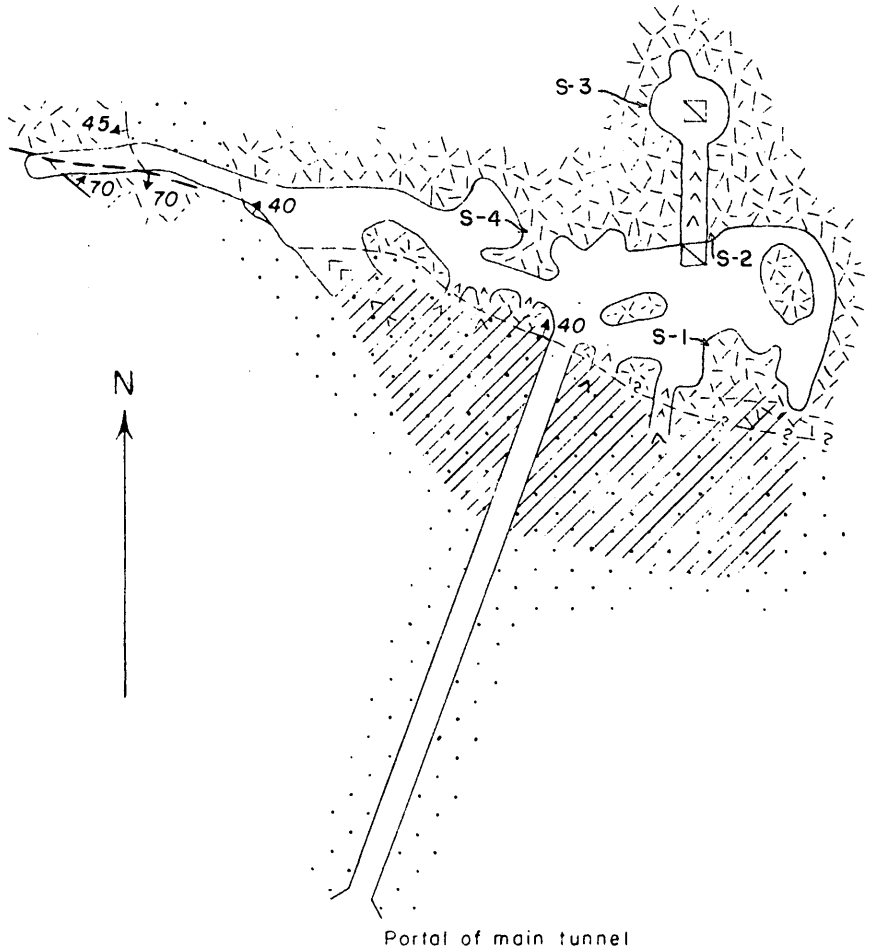
The first step in the exploration should be to gain access to the vertical raise. Data gathered in the vertical raise would determine in large part the remaining exploration program. If Irwin's concept of the structure is correct, the down-dip extension of the breccia zone could be explored best by raising through the tuff in the lower tunnel a few hundred feet north of the vertical raise. The tuff is soft, and mining costs should be low. The drifts on the main level could be lengthened to explore any easterly or westerly extensions of ore along the strike of the breccia zone.

Conclusion

Exploration of the Lead Mountain Mine is not recommended for the following reasons: (1) The probability of developing a large tonnage of ore of a grade similar to the 9,000 tons of indicated ore is poor. (2) Barite is the principal ore mineral; lead constitutes less than 1 percent, zinc less than 4 percent, of the ore. (3) Extraction of the lead and zinc values may not be economically feasible because of metallurgical processes that may render the barite unmarketable. (4) Barite, the principal ore mineral is not on the current list of strategic and critical minerals.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA 416X
(BARITE-LEAD-ZINC)



EXPLANATION

Andesite

Tuff

40
Contact, showing dip
(Dashed where approximately located)

70
Fault, showing dip
(Dashed where approximately located)

Inclined workings
(Chevrons point down)

Head of raise or winze

Stoped area
Inclined approximately
35° to north

S-1 indicates sample locality

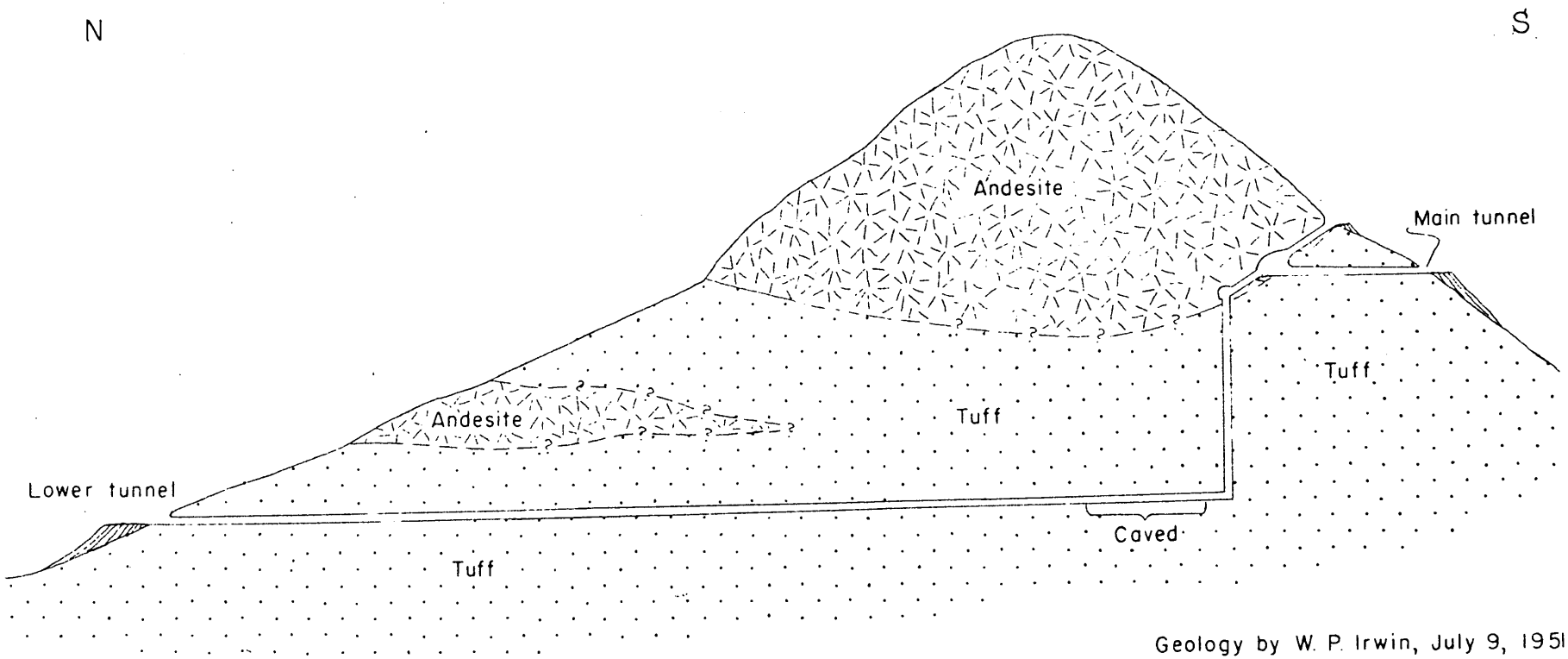
Mapped by W P. Irwin, July 9, 1951

PLAN OF MAIN LEVEL
LEAD MOUNTAIN MINE, SAN BERNARDINO COUNTY, CALIFORNIA

0 50 100 Feet

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA 416X
(BARITE-LEAD-ZINC)



Geology by W. P. Irwin, July 9, 1951

SKETCH SECTION OF THE LEAD MOUNTAIN MINE, SAN BERNARDINO COUNTY, CALIFORNIA

0 200 400 FEET

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-416x, Lead Mountain Mine
San Bernardino County, California
(Barite-Zinc-Lead)

William P. Irwin, Geologist
U. S. Geological Survey

August 10, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 20 1951

DMA-416x, Lead Mountain Mine
San Bernardino County, California
(Barite-Zinc-Lead)

Introduction

The Lead Mountain Mine was examined at the request of Mr. Tom Lyon, Chairman, Coordinating Committee, Defense Minerals Administration. Mr. O. M. Griggs had applied for Government assistance in a $25,000 program to explore the mine. William P. Irwin of the Geological Survey examined the mine July 8, and 9, 1951, in the company of Mr. J. P. Lloyd, who has a financial interest in the mine. A Brunton-and-tape map of the main level of the underground workings was made at a scale of 1 inch equals 50 feet, and four samples were taken in the underground workings.

The deposit contains 9,000 tons of indicated ore with an approximate average grade of 64.8 percent $BaSO_4$, 0.7 percent Pb., 3.8 percent Zn, and 0.95 ounces of Ag. per ton. The probability of discovering a tonnage of ore commensurate with the proposed cost of exploration is poor. Benefiation of the ore to extract the metal values may make the barite unmarketable, and thereby render the ore uneconomic. Exploration of the deposit is not recommended.

Location

The mine is high on the southern slope of an eastward-trending ridge in sec. 36, T. 10 N., R. 1 W., SBBM, about 5 miles east of Barstow, San Bernardino County, California. It is accessible by 2.6 miles of gravel road that extends northeasterly from U. S. route 91 at a point 3.6 miles from the center of Barstow.

Geology

The predominant country rock in the vicinity of the mine is porphyritic andesite and light gray to greenish tuff. The andesite caps the top of the eastward trending ridge, overlies the tuff, and may lie in the trough of an eastward trending open fold. On the south side of the ridge, the contact between andesite and tuff dips north at an average of about 40°; on the north side, the dips range from gently south, through horizontal, to gently north. The andesite is brecciated at its contact with the underlying tuff on the south side of the ridge. The brecciation appears to be due largely to shearing, but may be volcanic in part. The character of the contact on the north side of the ridge could not be determined.

Barium-, lead-, and zinc-bearing minerals replace andesite breccia and fill cavities in the breccia zone adjacent to the tuff on the south side of the ridge. The zone averages about 15 feet in thickness.

The ore minerals appear to be mainly barite, calamine, cerrusite, and galena. Silver chlorides are reported to be present.

Workings

Several tunnels, inclined shafts, and open cuts, open the breccia zone for about 1000 feet along the strike on the south side of the ridge. The main tunnel heads N 20 E in tuff, and crosscuts the contact between tuff and andesite breccia 155 feet from the portal (see plan of main level). Drifts in the ore zone extend east and west from the tunnel for a total length of 215 feet. The ore zone above the level of the drifts is almost completely stoped to the surface. The stopes, as well as the short shafts that connect the stopes to the surface, are inclined at an average of 35 degrees. A lower tunnel in tuff heads S 4 W from the north side of the ridge. It is 1300 feet long, and at its face a vertical raise is reported to extend 240 feet to the foot of a 40-degree raise in the ore zone. The 40-degree raise in the ore zone connects to the east drift, a horizontal distance of about 40 feet to the south.

The workings are dry and in good condition in general. All are accessible except the vertical raise and the innermost part of the lower tunnel. The upper end of the raise is open, but no ladder was available. A cave in the innermost part of the tunnel blocks the foot of the raise.

Ore Reserves

Ore is exposed at many places in the workings in the southern half of the ridge, in the form of small pillars and relatively thin layers in the backs of the workings in the ore zone. The north walls of the drifts are in ore that probably extends down the dip of the breccia zone. All mineable ore above the drifts has been mined out.

The ore zone in the westerly drift thins considerably to the west, and near the west end is displaced in an obscure manner by a fault. Much of the ore zone in the west end consists of massive brown calcite. In the easterly drift, the ore zone grades into breccia of lower grade at the east end.

The ore zone grades down the dip into sparsely mineralized andesite breccia. The inclined raise that extends from the top of the vertical raise is in the ore for the greater part. In the small stope at the bottom of the inclined raise, however, the mineralization is relatively weak and erratic, and much of the andesite breccia is nearly barren.

According to the docket submitted by the applicant (see sec. 16A), the bottom of the vertical raise is in ore. Also, a cross section submitted by the applicant shows the entire vertical raise in ore. This is in disagreement with Irwin's concept of the geology of the mine. Irwin believes that the top of the vertical raise is probably near the footwall

contact of the ore zone, and that the vertical raise is in barren tuff (see sketch section). The inaccessibility of the raise and innermost part of the lower tunnel precludes clarification of these points.

Four channel samples were cut to determine the general tenor of the ore, and to check the sampling results reported by the applicant (see plan of underground workings). The samples were cut normal to the plane of the ore zone, and averaged about 5 pounds each. The following are the assay results as determined by the Bureau of Mines, Hydrometallurgical and Ore Dressing Branch, Reno, Nevada.

Sample No.	% $BaSO_4$	%Pb.	%Zn.	Oz.Au/T	Oz.Ag/T	Width
1	76.6	*0.1	3.8	Trace	0.35	6.8 ft.
2	72.2	0.1	4.1	Trace	0.55	5.0 ft.
3	85.6	0.1	1.4	Trace	1.60	3.0 ft.
4	50.5	1.5	3.7	Trace	1.70	7.5 ft.

(* less than)

The assay results differ considerable from those reported by the applicant, particularly in regard to the lead content of the ore. Samples nos. 1, 2 and 4 were taken approximately along the same level of the ore zone. The ore zone at that level is an average of about 15 feet thick. The samples were cut across only a part of the thickness, and are believed to be somewhat higher than the average grade over the entire thickness of the ore zone. Sample no. 3 was cut in one of the richest parts of the ore zone near the top of the vertical raise. Where the mineralization is erratic, and the assay value of sample no. 3 is much higher than the average for the entire thickness of the ore zone.

The ore zone above the main level appear to be almost completely mined out. Extension of mineable-grade material along the strike to the east and west of the drifts is highly problematical. Down the dip of the ore zone, the cut-off between ore and non-ore appears to be fairly sharply defined at a level about 10 feet above the top of the vertical raise.

The block of ground between the drifts and a level about 10 feet above the top of the vertical raise is believed to be the only ore reserve. Making the most favorable assumptions, this block of ground contains 9,000 tons of indicated ore with an approximate average grade of 64.8 percent $BaSO_4$, 0.7 percent Pb., 3.8 percent Zn., and 0.95 ounces of Ag. per ton. The assumptions used are (1) the block is 150 feet long and 40 feet wide, measured in the plane of the ore zone, and averages 15 feet in thickness, (2) the average grade of the block is the weighted average of samples nos. 1, 2, and 4, and (3) 10 cubic feet of ore weighs 1 ton.

The deposit was discussed with Mr. Oliver E. Bowen, Jr, of the California Division of Mines, who gained knowledge of the district while mapping the Barstow quadrangle nearby. According to Bowen, the Lead Mountain deposit is similar in occurrence and mineralogy to several others in the same general area. One characteristic of these

deposits is that the mineralization dies out at a depth of a few hundred feet. He states further that beneficiation of the ore, to remove the metal-bearing minerals, renders the barite unmarketable. The metallurgy of the Lead Mountain ore should be investigated before any exploration is considered.

Exploration

The applicant's plans for exploring the property are not known. Mr. Lloyd, sent by Mr. Griggs as his representative during the examination, is not a mining man, and was ignorant of the exploration plans. Considering the diverse views of the structure of the deposit, held by Griggs and Irwin, it is probable that their ideas as to the proper procedure for exploring the property are at a wide variance.

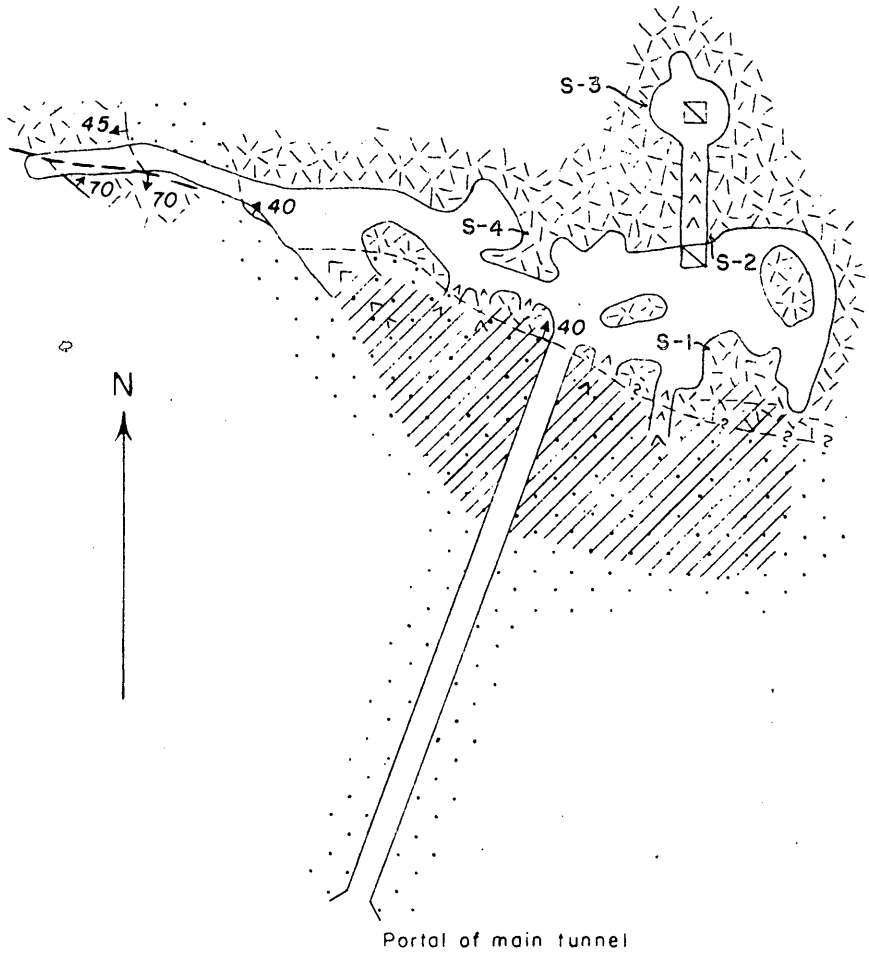
The first step in the exploration should be to gain access to the vertical raise. Data gathered in the vertical raise would determine in large part the remaining exploration program. If Irwin's concept of the structure is correct, the down-dip extension of the breccia zone could be explored best by raising through the tuff in the lower tunnel a few hundred feet north of the vertical raise. The tuff is soft, and mining costs should be low. The drifts on the main level could be lengthened to explore any easterly or westerly extensions of ore along the strike of the breccia zone.

Conclusion

Exploration of the Lead Mountain Mine is not recommended for the following reasons: (1) The probability of developing a large tonnage of ore of a grade similar to the 9,000 tons of indicated ore is poor. (2) Barite is the principal ore mineral; lead constitutes less than 1 percent, zinc less than 4 percent, of the ore. (3) Extraction of the lead and zinc values may not be economically feasible because of metallurgical processes that may render the barite unmarketable. (4) Barite, the principal ore mineral is not on the current list of strategic and critical minerals.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA 416X
(BARITE-LEAD-ZINC)



EXPLANATION

Andesite

Tuff

40
Contact, showing dip
(Dashed where approximately located)

70
Fault, showing dip
(Dashed where approximately located)

Inclined workings
(Chevrons point down)

Head of raise or winze

Stoped area
Inclined approximately
35° to north

S-1 indicates sample locality

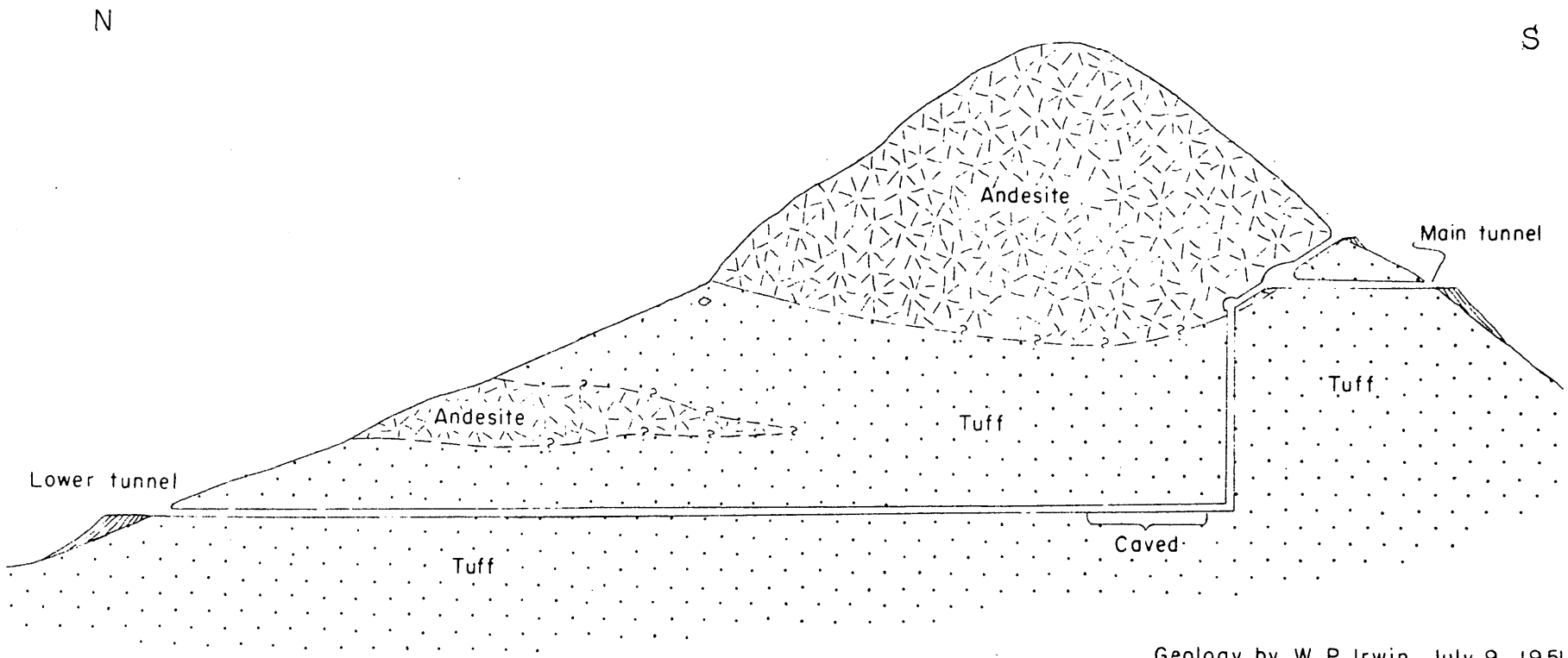
Mapped by W. P. Irwin, July 9, 1951

PLAN OF MAIN LEVEL
LEAD MOUNTAIN MINE, SAN BERNARDINO COUNTY, CALIFORNIA

0 50 100 Feet

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA 416X
(BARITE-LEAD-ZINC)



Geology by W. P. Irwin, July 9, 1951

SKETCH SECTION OF THE LEAD MOUNTAIN MINE, SAN BERNARDINO COUNTY, CALIFORNIA

0 200 400 FEET

Refer to	Note	
Answered		

DEPARTMENT OF INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUN 22 1951
SAN FRANCISCO, CALIFORNIA

JUN 20 1951

Mr. H. C. Miller
Executive Officer, DMA Field Team
Region III
1415 U. S. Appraiser's Building
San Francisco 11, California

Dear Sir:

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

Docket No. 416X

Commodity Zinc-lead

Applicant O. H. Griggs for Lead Mountain Mines, Crescent Mills, California

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

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon

For Bureau of Mines

Edwin T. McKnight

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA 416X

Commodity Zinc-lead

Total Amount $25,000

Govt. Participation $12,500

1. Name and Address of Applicant O.H. Griggs, for Lead Mountain Mine, Crescent Mills, California

2. Location of Property Lead Mountain Mine, 640 acres consisting of section 36 T. 10 N. R. 1 W., San Bernardino Base Meridian, San Bernardino County, Calif.

3. Mineral or metal Zinc, lead, barite 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?
(If so, attach an explanation)

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

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

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

*question numbers are those of MF-103

7. Are subordination agreements necessary?_____

   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_____

   b) Equipment and supplies_____
      (Question 14 plus general knowledge of availability)*

   c) Accessibility (question 12)*_____

   d) Water (question 13)*_____

   e) Power (question 13)*_____

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

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

   _____

   Is a field check needed on this point?_____

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?_____ If so, attach a draft.

   b) Is there an adequate map or sketch of the proposed work?_____

      _____

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

      If not, what part of it is?_____

      _____

      _____

      _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable?_____

f) Should more information be requested from applicant?_____

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

11. Exhibit B (question 23-d)*

a) Is it applicable?_____

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

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

a) Is it applicable?_____

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

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

a) Are there sufficient data?_____

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

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

14. Exhibit E (question 23-c)*

a) Is it applicable?_____

b) Sufficient data?_____

c) Reasonable?_____

d) Field check needed?_____

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

(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? From his very general description, this might be O.K. This proposal needs a thorough field check of the accessible workings in terms of geology and possibilities for exploration. Where were the samples cited taken? Where does he plan to explore and is his plan valid? He says he wants to drill four holes from known ore faces. Where are they? We need detailed cost estimates for proposed drilling, installing, new ladders, and reopening of caved area in the 1300 ft. tunnel. The applicant's right to the property should be checked.

Reviewed by: A. V. Heyl (GS)

Date 6/19/51

97692

Mr. Hewes

LAKEVIEW MANGANESE MINES
CRESCENT MILLS - CALIFORNIA

Dna 416 x

July 4, 1951.

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

Gentlemen:- Under date of May 15th and in accordance with instructions given me, I addressed to you an application for a loan of 50% of an estimated $25,000.00 requirement for obtaining determinations on a lead-zinc-barite property named "Lead Mountain" lying near Barstow, California.

Since then no response of any kind has been received.* This seems an unusual length of time needed for some reply. It must be appreciated that dealings on a property of this kind customarilly carry time limits and lack of any expression from your Department while applicant awaits some word can serve to bring about a forfeit of applicants' project.

BROUGHT

A letter recently addressed to your Regional Director, Mr.Miller, of San Francisco, reports that "a concerted effort is being made to handle"*** applications and " to deny them or transform them into contracts by June 30th". I am hoping therefore to be enabled to get some response-- as to whether you wish further information or whether you act favorably on the application or whether you deny it. At least, some expression from your Department will allow me to proceed whether by seeking private funds or under the program set up by Congress for minerals development. My time allotted under my option to Lead Mountain mine is nearing expiration.

The whole mining industry of the West, nearly bankrupt recently, is hoping that the minerals program contemplated by our Congress will accomplish the results vital to our Country.

Respectfully yours,

O.H.Griggs.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 9 - 1951
LANDON F. STROBEL
Executive Secretary

* Ltr of acknowledgment sent out 6/18/51

To Reports & Records 9/5/51 for denial

JUL 9 1951

FILE COPY
SURNAME:

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

Heyl (E.Mc)
McKnight
Mote
Perkes
McKnight Jan
Moore

Mailed 6/20/51

June 19, 1951

Re: Docket DMA-416X

Mr. O. H. Griggs
1903 Outpost Drive
Hollywood 28, California

Dear Mr. Griggs:

Your application for a loan to explore the Lead Mountain Mine, Crescent Mills, California, has been referred to Mr. H. C. Miller, Executive Officer of the Field Team, 1415 U. S. Appraiser's Building, San Francisco 11, California, for further information and advice.

Very truly yours,

Tom Lyon, Director
Supply Division

A.V.Heyl:emp
G 6/19/51
Copies to: H. C. Miller Region III (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
L. F. Strobel
Directors r. file 4214 GSA
Br. R. file 4214 GSA
Files

Dm 2 416

258

FILE COPY
SURNAME:

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

June 18, 1951

Mr. O. H. Griggs
1903 Outpost Drive
Hollywood 28, California

Subject: DMA-416X
Re: Exploration Loan -
Lead Mountain Mine

My dear Mr. Griggs:

Receipt is acknowledged of your application and attachments of May 15, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-416X and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch on May 28, 1951.

In any future correspondence relating to your application, kindly refer to DMA-416X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel JC
Executive Secretary

L. F. Strobel:jc
cc: Strobel
✓File
Herres
Lyon

DMA 416

856

LAKEVIEW MANGANESE MINES

CRESCENT MILLS - CALIFORNIA

May 15, 1951.

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

Gentlemen:- Attached hereto please find information in quadruplicate covering four pages descriptive of mining property known as "Lead Mountain Mine" for which we seek Government aid to the extent of 50% of a proposed expenditure of $25,000.00. This property is located in San Bernardino County, California, about 4 miles NE of the town of Barstow. The attached information is responsive to your Form MF-103 which is the only issue we have been able to find relating to minerals loans. Questions set forth in MF-103 are answered in the numerical sequence of the Form.

Much of the information attached hereto is from reports by various Mining Engineers but considerable is from our own investigation. As these reports are years old, mappings are not available. We trust that our descriptions will serve adequately in lieu of usual maps, but if not we shall be glad to furnish you with sketches taken from our examination of this property. Assays quoted are from the reports mentioned.

The undersigned obtained a cursory inspection of this property by Bureau of Mines Engineer and was advised that all funds for the purposes were now allocated to DMA and other agencies and we were advised to take the matter up with DMA. We have been furnished no conclusions by the Bureau but are acting upon its advice.

The undersigned is convinced that "Lead Mountain Mine" is a property of unusual merit and should be developed as a substantial producer. Upon preliminary work having been done as outlined in the attached information, the undersigned is able to carry through the further stage of bringing this property to production.

If we have not been furnished with proper instruments for applying for Government aid, please either consider this a formal application for the mentioned 50% of $25,000.00 or kindly supply us with any other Forms which may be requisite for complying with your requirements.

If further data are required, we shall be glad to add to the information being herewith submitted if it is available.

Respectfully yours,

D.M.Griggs

For Lead Mountain Mine,
Crescent Mills, California.

Los Angeles, California.
May 15, 1951.

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

Gentlemen:- Responsive to your Form MF-103, we submit the following data and information relative to our Lead-Zinc property situated in San Bernardino County, California, and within four miles of Barstow:-

1. Applicant is temporarily a partnership.

2. S.E.Cramer, 119 So.Beverly Dr., Beverly Hills, Calif.
   Palmer Lloyd, " " " " "
   O.H.Griggs, 1903 Outpost Dr., Hollywood 28, Calif.

3. Not applicable.

4. Of the partnership O.H.Griggs is experienced in mining and will be the Managing Partner. His experience extends over more than 30 years of mining beginning with Iron mining in the Lake Superior District being a major owner of operations of (a) the Mahnomen open pit mine on the Cuyuna Range; (b) the Shada open pit mine on the Mesaba Range; (c) the Madrid underground mine on the Mesaba Range; and (d) the Rolling Mill Mine at Ishpeming, Mich., and others. Since 1924, he has enagaged in mining of copper in Oregon and California, gold in California, Manganese in California and others.

5. Lessee.

6. The Lead-Zinc property under discussion is owned in fee simple and there are no liens or other encumbrances against it.

7. Lease is in escrow, delivery to applicant of which is contingent upon Lessee beginning work upon the property, which work is the subject of this application. The lease terms require Lessee to do such work as will satisfy Lessee as to the merits of the property and upon so being satisfied and having notified the Owners of hte property to that effect, Lessee will then be required to bring about productive operations of the property on a scale of 200 tons of mine ore per day-- with the right to suspend without penalty in event metal prices fall below profitable levels, or conditions become such that sales are impracticable, or in event of lack of obtainable equipment due to allocations, or in event of so-called acts of God-- such production to be actual within 3 years from date of the letter of notification mentioned, which letter must be served within 1 year of delivery out of escrow of the lease. Royalty is 8% of smelter returns. Lease is for 30 years. There are no harsh provisions of the lease, the terms and conditions being standard for mining in Calif.

(Lead Mountain Mine, Cfo O.H.Griggs, Crescent Hills, Calif.)

8. This being anew venture, applicant has no financial statement to submit.

9. Applicant estimates the work of determining values, tonnages and metallurgy of the ores of the property to be approximately Twenty-five Thousand Dollars ($25,000.00) of which applicant is prepared to furnish 50% in compliance with the announced mineral program of DMA as set forth in release dated April 11, 1951.

10. This property is generally known as "Lead Mountain Mine". It consists of one whole Section of land-- 640 acres. The mineralized ground lies in a small mountain obtruding above the surrounding terrain, thereby lending itself to tunnel operations. No other property is involved in this application.
Legal description:- Section 36, Township 10 North, Range 1 West, San Bernardino Base Meridian, San Bernardino County, Calif.

11. So far as applicant knows this property has always been known by the name of "Lead Mountain Mine".

12. This property lies 4 miles NE of Barstow, California, which is a Division Point of the Union Pacific Ry. Of the 4 miles, 2 miles is across flat desert-like ground and 2 miles is on State Highway.

13. Source of water supply is flat land adjoining the property which is saturated by Mojave River and from which shallow wells furnish abundant water for ranches of the district-- these wells delivering 200 gallons per minute and more. Applicant has access to water supply ground and a pipe line of about one-half miles will bring water to the property and proposed millsite.
High tension power lines are within 2 miles of the property. Prices for current available vary down to .7¢ per KW. Upon production of the mentioned 200 tons per day from this mine, power requirements will total approximately 500 connected Horsepower.

14. There are no buildings, structures or machinery on this property presently. Exploration proposed by diamond drilling can be conducted from accessible underground old workings, all holes starting in ore avoiding any wastage of drilling footage.

15. Ultimate plan in mind for this property is to mill ores on the property as ideal conditions exist for such a program. Concentrates of Lead and Zinc would be shipped to smelter in the Salt Lake area and product of barites sold to consumers in the Los Angeles area.

16. (a) As nearly as can be ascertained now, operations on this property during the early twenties were carried on for the purpose of mining direct shipping rich lead ores. Tunnels were driven into the ore body near the top of ore outcroppings, all of which are open and accessible at this time. Underground drifting along the ore was

done for several hundred feet and the mentioned highgrade lead enrichments where encountered were extracted-- all of which was in the upper zones of the ore body. Winzes also were sunk for exploration one being 400 feet deep. This 400 foot winze encouraged the driving of a 1300 foot tunnel connecting at the winze bottom in ore. All of these openings are accessible excepting no ladders remain in the winzes, and a small cave occurs in the 1300 foot tunnel whixh appears to have been blasted down. There is no way of knwong the value of the ores shipped from this work, but compared to the size of the visible ores all previous shipments still leave the property practically virgin. It is believed that the miners who did the work on the property were typical of early day highgraders of the West.
(b) Bartsow has been the center of several mining operations carried on profitably and successfully. This property under discussion has been owned by people of wealth not connected with mining who have given no attention to it.
(c). Reports available are copies of originals but are by well known reputable engineers. Summing up the conclusions of these reports, those reporting extimate that there is in sight up to 2,000,000 tons of ore, with no bottoming yet found down to the 400 foot level. Many assays given in these reports may be cited:- One group of assays from nine points gives the following--Lead .87%; Zinc 2.6%; Silver 1.4 oz; Barites 56.9%. Another group of seven assays gives:- Lead 4.26%; Zinc 3.2%; Barites 43.6%. Another group of five assays gives:-Lead 2.7%; Zinc 3.5%; Barites 31.5%. Silver in those assays runs from .90 oz to 5.75 oz., with an average of approximately 2.5 oz. Gold also occurs but the average is low, about .35%. Another group of twenty-three assays gives an average of Zinc of 5.4%, with Silver about 2 oz, but lead omitted. Another group of eleven assays gives:- Lead 5.8%; Zinc 3.5%; Silver 3.5 oz; Barites 55%.

The ore body of this property will average not less than 75 feet in width and can be seen for a length of not less than 1500 feet. The ground stands remarkably well as all old openings are in good shape with little sloughing.

Reports dated 1943-1945 when an option was given to people who were unable to perform, state that metallurgy is comparatively simple. Part of applicants'plan is to have definite metallurgy done on this ore.

It should be noted that whereas Barites were non-marketable at the time work was done on this property formerly, Barites now command a ready market and at prices which alone make the ores of this property commercial.

17. Not applicable.

18. (a) Given above in 16.
(b) There are no mappings available. Assays given in 16 above.
(c) Given in 16 above.

(Lead Mountain Mine, Cfo O.N.Griggs, Crescent Mills, Calif.)

19. The foregoing, we believe, fairly well covers conditions.

20. The products from this property will be Lead Concentrate, Zinc Concentrate, either or both carrying contained precious metals, and Barites.

21. It is proposed to install ladders in the mentioned winzes, catch up the mentioned caving in the 1300 foot tunnel, diamond drill not less than three fans of holes expecting to get holes 400 feet deep and aggregating some 3600 feet of drilling. Coincidentally do wall sampling in all openings. Also obtain determinate metalurgical work on the ores sufficient to furnish positive mill flow sheet. It is calculated that all of this work will cost something less than $25,000.00. Assays of drill cores will be made from samples at hole intervals not spaced longer than 10 feet, and also save and assay sludge where cores are not complete. This work should be done in less than 90 working days.

22. This ore body outcrops for not less than 1500 feet in length and has several tunnels near its top with drifts and winzes and raises. A 1300 foot tunnel apparently designed as an operating tunnel is driven 400 feet below old workings, and at its portal is an ideal millsite. The ore occurence as reported by examining geologits is an altered lime on the eastern end and side and an alteredt andesite on the other side of the ore. In the upper reaches of the ore there is some oxidation but sulphides predominate. Assays have been given in 16 above. There are no mappings available. All of the ore body down to and somewhat below the 1300 foot tunnel is above the level of the surrounding terrain. The general area around this mine is at about the same altitude as the city of Barstow.

23. Response to this can be summarized by repeating applicants' plan for expenditure of the above mentioned proposed outlay. The plan is to do sufficient diamond drilling to confirm information available as well as observation and investigation of applicants; also to obtain definite metallurgical tests for treatment of the ores of the property. Labor involved would be confined to crew engaged in diamond drilling with usual supervision and geologic study. There would be no construction of buildings nor installation of equipment other than merely needed for such work. Upon satisfactory results having been obtained, applicants plan to finance installation of all equipment and machinery for operating this property. Diamond drilling proposed hereunder would be by contract at prevailing prices therefor.

24. Applicant believes that the program of work proposed can be completed within 90 days from the time work is commenced, and that total cost will be well within the sum of $25,000.00.

Applicant for the present will be identified as "Lead Mountain Mines".

O.H.Griggs O.H.Griggs
For Lead Mountain Mines

(Lead Mountain Mine, Cfo O.H.Griggs, Crescent Mills, Calif.)

DEPARTMENT OF THE ARMY
Defense Digital Library
MAY 3 8 1951
Defense Logistics Agency

FILE COPY
SURNAME:

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

Herres
Moore
Moots

April 24, 1951

DMA-416
Alhambra Gold Mine Corp.
Near Barstow, Calif.

Mr. C. H. Griggs,
Alhambra Gold Mine Corporation
1903 Outpost Drive
Hollywood 28, California

Dear Mr. Griggs:

This will acknowledge receipt of your letter dated April 8 stating that the owners of the zinc-lead-barite property near Barstow, California, are not mining people and therefore would not care to match funds with the Government for the purpose of financing exploration work. I regret to learn that for this reason it seems you will not be able to go ahead with the project submitted to the Defense Minerals Administration.

In case I can be of further assistance to you however, it will be appreciated if you will let me know.

Yours very truly,

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

OHERRES:ks

cc: Mr. Strobel
Mr. Mote
Mr. McKnight
Mr. Herres
Mr. Moon
2 copies to Mr. H. C. Miller, 1415 Appraisers Bldg.
San Francisco, California
Files

LANDON F. STROBEL

Mr. Herres.

ALHAMBRA GOLD MINE CORPORATION

GEORGETOWN, CALIFORNIA

1903 Outpost Drive,
Hollywood 28, Calif.
April 8, 1951.

Mr. Otto Herres, Chief,
Defense Minerals Administration,
Department of the Interior,
Washington, D.C.

Re: DMA Docket 416.

Dear Mr. Herres:- I have yours of March 30 regarding my letter concerning the zinc-lead-barite property located near Barstow, California.

I note your information that Government assistance for exploratory purposes is to be afforded only when property owners match the sums provided by the Government. In the case I brought to your attention, this limitation will mean that nothing can be done with this property inasmuch as the owners are not mining people and would therefore not take part in a program for the financing of necessary work. Locally it appears out of the question to get private funds for this work. I have estimated that determinations as to the merits of the property can be gotten with an expenditure of about $20,000.00 which includes both exploartion and metallurgy.

Following your suggestion, I shall write to Mr. Miller in San Francisco and call his attention to this large property.

Thanking you for your courtesy, I am

Yours respectfully,

O.H.Griggs.

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

APR 23 1951

BUREAU OF MINES
WASHINGTON, D.C.

APR 23 8 45 PM '51

FILE COPY
SURNAME:

Mr. McKnight
Herres

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

March 30, 1951

Mr. C. H. Griggs
1903 Outpost Drive
Hollywood 24, California

Re: DMA Docket 416

Dear Mr. Griggs:

A reply to your letter of February 1, concerning your interest in obtaining Government assistance to develop your zinc-lead-barite property has been delayed while an unsuccessful attempt was made to locate your letter of January 2.

From the information contained in your February 1 letter concerning your interest in having the Bureau of Mines drill your property, it appears that you are interested in exploration assistance. For your information, I am enclosing a copy of a press release which outlines the general details of an exploration program recently announced by Defense Minerals Administration. You will note that this program is based on matching funds advanced by an operator with Federal funds to pay the costs of exploration on projects approved after investigation by Government geologists and engineers. The Federal contribution will be a loan, to be repaid if the exploration is successful. Application forms requesting aid in exploration will be available soon together with more detailed information as to the procedures to be followed. If you are interested in applying for this type of assistance, I suggest that you arrange to obtain the necessary application schedules and other information from W. C. Miller, Executive Officer, Regional Field Team, Region III, 1415 Appraisers Bldg., San Francisco, California.

I trust that this information will satisfactorily answer your inquiry. If I can be of further assistance to you at any time, please feel free to call upon me.

Very truly yours,

Otto Herres

[illegible], Chief
Lead-Zinc Branch

RH:CTS/mm
Enclosure

Copy to: Base Metals Branch (2)
F. H. Wote
L. B. Moon
O. Herres
E. T. McKnight

C. O. Mittendorf
L. F. Strobel
Field Team, Region III (2)
Files

DMA Docket 416

March 29, 1951

Mr. O. H. Griggs
1903 Outpost Drive
Hollywood 28, California

Dear Mr. Griggs:

Your letter of March 12th addressed to Mr. Jess Larson has been referred to my office for reply.

It is evident from your letter that you would like to have your property at Barstow, California drilled for further exploration.

There is a provision for such assistance by Defense Minerals Administration and the program is now being set up. As soon as application forms for such a loan are received in this office, we shall send you a set to be completed and returned at your earliest convenience.

Sincerely yours,

James A. Barr, Sr., Chief
Industrial Minerals Branch

JAB:mec
Ext 3318

cc: Mr. Barr
Mr. Strobel
F I L E S

LANDON F. STAUFFER

GENERAL SERVICES ADMINISTRATION

Washington 25, D.C.

MAR 21 1951

Honorable James Boyd
Administrator
Defense Minerals Administration
Washington, D. C.

3/23/51
Lyon
reply

Dear Dr. Boyd:

For your information and whatever action may be appropriate there is enclosed a letter from Mr. O. H. Griggs, 1903 Outpost Drive, Hollywood 28, California, requesting Government aid in reopening and developing a mining property at Barstow, California.

A copy of our acknowledgment of Mr. Griggs' letter is also enclosed.

Sincerely yours,

Irving Gumbel

IRVING GUMBEL
Special Assistant to
the Administrator

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 2 3 1951
LANDON F. STROBEL
Executive Secretary

LANDON F. STROBEL

O. H. GRIGGS
1803 CUTPOST DRIVE
HOLLYWOOD 28, CALIFORNIA

BUREAU OF MINES
WASHINGTON, D.C.
MAR 9 1 56 PM '51

[illegible], 19[illegible]

[illegible]

[illegible] Yes [illegible] letter of [illegible], the [illegible]

[illegible] [illegible] of [illegible] [illegible] to struggle [illegible] property [illegible] production will [illegible] that I must [illegible]

[illegible] perhaps [illegible] the type of [illegible] forecast exact [illegible] area [illegible] for [illegible] prospects.

[illegible] offered [illegible] portion. [illegible] Plop [illegible] professional [illegible] certain [illegible] and [illegible] dates.

[illegible] [illegible] [illegible] [

Personal

Phil Bradley:-

It is [illegible] promise to [illegible] place of authority and I [illegible] not refuse [illegible] sug[illegible] [illegible] Now [illegible] a practical min[illegible] man conversant wi[illegible] field [illegible] me this is [illegible] best [illegible] I [illegible] Defense Minerals Administration setup. More power to [illegible] congratulations also ---not omitting to [illegible] on the confidence that will be felt by many now that a real miner is on the job. It [illegible] is any wa. I can help in my small field, [illegible] hesitate to let [illegible] If practical mining men can be given authority, the Defense [illegible] will go, and everyone will pitch in with his best.

My best regards to you and wishes for success.

Hal Briggs
3/4/51

Bradley

MAR 9 1957

reply

February 26, 1951

Mr. O. H. Griggs
1903 Outpost Drive
Hollywood 28, California

Dear Mr. Griggs:

Having received a letter from you a few days ago, a search of the files disclosed your previous letters and also a letter written to you and inadvertently never mailed. However, it still may be sufficient for the purpose for answering the questions in your mine, so therefore it is enclosed.

Yours very truly,

P. R. BRADLEY

P. R. Bradley, Jr.
Chief, Manganese Branch

Enclosure

PRBradley:vwm

CC: Mr. Strobel
Adm. Reading File
Mr. Bradley
Files

January 22, 1951

Mr. O. H. Griggs
1903 Outpost Drive
Hollywood 28, California

Dear Mr. Griggs:

Your letter of December 27 has been handed to me for reply, and I will answer your questions in the order you ask them.

No regulation of output of strategic minerals of individual producers is being considered, and it appears unlikely that there will be any over-supply in the foreseeable future.

In only special cases are producers asked to agree to a firm delivery, and in most cases this requirement will not be imposed. However, no purchase contract will be negotiated unless the D.M.A. is satisfied by field inspection or otherwise that there are reasonable chances of the contract being met.

Deviations from prevailing market prices will be subject to negotiation with the producer and will depend on a number of things, including production prospects at the mine and scarcity of the mineral in question; length of the contract, desirability of encouraging production from the particular deposit within the limits of D.M.A. policy, and the like.

In the case of such contracts, the Government will be the purchaser. Where purchase contracts have been negotiated by the producer with private individuals they will be subject to such allocation orders as may be issued.

In respect to your request for information on assistance for your particular production venture, most principles which apply to Government assistance have been enumerated above, but to amplify we might state that you should conclude upon the basis of your own knowledge of your deposit what form of Federal assistance will best insure production, and you should then present to the D.M.A. a proposal in accordance, submitting all evidence possible as to what the assistance will accomplish and what it will cost if a request for a loan is being made. Evidence accompanying proposals should be rather thorough.

PRBradley:vwm

Yours very truly,

P. R. BRADLEY

CC: Mr. Strobel
Adm. Reading File
Mr. Bradley
Files

P. R. Bradley, Jr.
Chief, Manganese Branch

LANDON F. STROBEL

Answered
[redacted] ehMote/ppm
Mar. 30, 1951

1903 Outpost Drive,
Hollywood 28, Calif.
February 1, 1951.

FEB 6 2 18 PM '51
BUREAU OF MINES
WASHINGTON, D.C.

Dma-46

Defense Minerals Administration,
Dr.James Boyd, Administrator,
Department of Interior,
Washington 25, D.C.

Gentlemen:- On January 3 last I addressed a letter to you in regard to a Zinc-lead-barite property named Lead Mountain, but have had no response to my letter. So far as available instructions indicate, it is your Administration to which such letters should be sent. If this is incorrect, I would greatly appreciate advice from you as to whom such matters should be directed.

In order to disclose the purpose of my former letter, allow me to repeat the substance of it.

The property under discussion was opened up years ago and highgrade zinc-lead ores shipped from limited work done. No treatment plant has ever been on the property and it has been idle ever since, being owned in fee by parties who are not engaged in mining. It has a large potential tonnage, reports by engineers at hand giving estimates of 1,000,000 to 2,000,000 tons from the openings high up on the ore down 400 feet to the lowest opening, with no bottoming of ore in sight. The ore width is from 50 to 100 feet with a probable average of 75 feet. According to these reports which contain a large number of assays the ore will average 2% plus zinc, 2% lead and 40% barites. There is a present ready market for the barites.

In September last, an engineer from the Reno office of the Bureau of Mines visited the property with me in response to my request for an examination preliminary to an application for a project for drilling the mine. While I do not have any definite report of the results of this visit, the Bureau suggested that I communicate with you inasmuch as the Bureau was short of necessary funds for the work.

It is my intention to apply for help from the Government in this connection, but I find it impossible to do so under the application Form NSRB 146. May I ask to be informed as to how to proceed in this matter. If your Administration is not the proper agency to which to communicate will you please give me the name and address of the right one.

Respectfully yours,

O.H.Griggs

O.H.Griggs
1903 Outpost Drive,
Hollywood 28, California.

1903 Outpost Drive,
Hollywood 28, Calif.
February 1, 1951.

FEB 6 2 18 PM '51
BUREAU OF MINES
WASHINGTON, D.C.

Defense Minerals Administration,
Dr. James Boyd, Administrator,
Department of Interior,
Washington 25, D.C.

2-7-51
Acres

Gentlemen:- On January 3 last I addressed a letter to you in regard to a Silver-Lead-Barite property named Lead Mountain, but have had no response to my letter. So far as available instructions indicate, it is your Administration to which such letters should be sent. If this is incorrect, I would greatly appreciate advice from you as to whom such matters should be addressed.

In order to disclose the purpose of my former letter, allow me to repeat the substance of it.

JMA-416

The property under discussion was opened up years ago and high-grade zinc-lead was shipped from limited work done. No treatment plant has ever been on the property and it has been idle ever since, being owned in fee by parties who are not engaged in mining. It has a large potential tonnage, reports by engineers at hand giving estimates of 1,000,000 to 2,000,000 tons from the openings high up on the ore down 400 feet to the lowest opening, with no bottoming of ore in sight. The ore width is from 50 to 100 feet with a probable average of 75 feet. According to these reports which contain a large number of assays the ore will average 5% plus zinc, 2% lead and 40% baritee. There is a present ready market for the baritee.

In September last, an engineer from the Reno office of the Bureau of Mines visited the property with me in response to my request for an examination preliminary to an application for a project for drilling the mine. While I do not have any definite report of the results of this visit, the Bureau suggested that I communicate with you inasmuch as the Bureau was short of necessary funds for the work.

It is my intention to apply for help from the Government in this connection, but I find it impossible to do so under the application Form DMA 416, may I ask to be informed as to how to proceed in this matter. If your Administration is not the proper agency to which to communicate will you please give me the name and address of the right one.

Respectfully yours,

O. W. Griggs

1903 Outpost Drive,
Hollywood 28, California.

1-16-51

Mr. Herres

Defense Minerals Administration

Referral of Application for Government Aid

Project No. DMA - 416

Commodity: lead zinc

Name of Applicant: O. H. Griggs

Address of Applicant: 1903 Outpost Drive
Hollywood 28, California

Name of Property:

Location of Property: About 4 miles northeast of Barstow, California

Nature of Application: Examination by engineers and loan

Action Dates

Application: 1/ 3/51

Received: 1/10/51

Acknowledged:

Referred to NONFERROUS METALS Committee: 1/16/51

6

DMA-416 ~~LANTON F. STROUD~~

O. H. GRIGGS
1803 OUTPOST DRIVE
HOLLYWOOD 28, CALIFORNIA

Jan. 3, 1951.

Defense Minerals Administration,
Dr. James Boyd, Administrator,
Department of Interior,
Washington 25, D.C.

D.M.A. 416
Lead-Zn

JAN 10 7 40 AM '51
BUREAU OF MINES
WASHINGTON, D.C.

Gentlemen:- The writer has received from the Bureau of Mines a set of Form NSRB 146, but, owing to conditions hereinafter explained, finds it difficult to formulate proper responses to that Form.

Some three months the writer in company with an Engineer from the Reno office of the Bureau of Mines visited the property under discussion in this letter and several samples were taken, the assays of which have not been furnished to the writer as yet. The purpose of the visit was to enlist aid from the Bureau by a project for drilling the property, but the Bureau reported it was without funds for the purpose and recommended the matter be taken up with your Department.

This property consists of one whole Section of land, is patented and owned in fee, clear of all encumbrances. It is situated about four miles North East of Barstow, California.

From various reports it is learned that the ore was discovered some 65 years ago and that early exploiters shipped from it untreated highgrade ores to a total worth of some $500,000.00. No milling plant or modern equipment has ever been on the property.

The ore occurence, from the reports and my own investigation, appears to be in an andisitic, tufa, limestone country rock area. The reports and assays available indicate that an overall average of the ore will contain a minimum of :-Zinc, 2% plus; Lead, 2%; Barites, 40%; silver, 1½ oz; and gold a minor value of about 35¢. All of this would add up to in excess of $15.00 per ton at prices very much below the present. The writer's opinion is that the Zinc will run considerably higher than 2%. The reports mentioned are dated in the 1920s and 1930s. They also state that the metallurgy, from test work done, is comparatively simple-- but no details as to the test work is given.

These reports state the ore body to be an average width of 75 feet with a proven length of 1500 feet and proven to a depth of 400 feet with no bottoming at that depth shown. Estimates of tonnage in these reports run from over 1,000,000 to more than 2,000,000 tons of "available"ore. The writer believes this information is not exaggerated.

The ore occurs in a gentle mountain and the 400 feet of depth mentioned would all be several hundred feet above the surrounding country. Therefore all prospective operations would be by tunnel.

There are several openings into the ores of this property made in early days and a few large chambers in the ore where it is obvious that highgrade ores were mined. This highgrade must have been concentrations of lead, for at the time of mining there would have been a poor market for ore high in zinc and no market for barites which presently are readily saleable. These openings are high up on the ore and, inside, winzes have been sunk which are no accessible at this time, one winze connecting downward to a 1300 foot tunnel driven in at the mentioned 400 foot depth-- this tunnel is caved in at a point about 900 feet from its portal and therefore shuts off access to the deep winze. However among the last rock taken from thsi long tunnel and now on the dump, is good looking ore which has not as yet been sampled.

Electric power is available within four miles of the property. Abundant water also is available about 1½ miles from the property.

Considerable assays are included in the reports mentioned which seem to more than confirm the contained ore values referred to. The engineers making these reports were:- State Mineralogist of California, Lewis I. Buck, H.Carroll Alford, and Otton Ellerman.

As may be seen, the conditions above presented render it difficult to respond to the questions in Form NSRB 146. The writer is unable to furnish any dependable estimate of funds needed for further exploring, developing and opening up this property. In the writer's opinion, a more thorough examination should be made by your engineers with a view both as to the sequence of steps for this work and as to the amount of funds necessary. The owners of the property are not mining people nor do they have the funds with which to undertake this work. The writer after some time spent on the property is impressed with the size of the deposit and its potential as a producing mine. Owing to the lay of the property, it is certain that extremely low production costs could be attained. If the ore will grade up to that given by the reports, which the writer is convinced it will easily do, this property is one of unusual merit.

In this case where it seems impractical to attempt to make a formal application under the Form furnished, will you please suggest what steps can be taken to bring about an examination and possible subsequent activity on thsi property?

Thanking you, I am

Respectfully yours

O.H.Griggs O H Griggs

1-10-57
Herres for reply.

O. H. GRIGGS

[illegible] OUTPOST [illegible]

HOLLYWOOD [illegible] CALIFORNIA

D.M.A.— Jan.3, 1951 - -

There are several openings into the ore [illegible]
and a few large chambers [illegible]
were mined. This high-grade [illegible] concentrate [illegible]
time of mining [illegible] poor market [illegible]
no market [illegible] sales [illegible]
are high up [illegible] ses [illegible]
at this time, one [illegible] 1950 [illegible]
the mentioned [illegible] shaft is [illegible]
feet from its [illegible] off [illegible]
among the last [illegible]
looking ore which [illegible] sampled.

Electric power is available [illegible] the property. A
also is available about [illegible] property.

Considerable assays are [illegible] reports mentioned [illegible]
then confirm the [illegible]
reports were:- State [illegible] Louis I. [illegible] Ore,
and Otto Eliason.

As may [illegible]
to the [illegible]
estimate of [illegible]
property. [illegible]
by your [illegible]
and [illegible]
mining [illegible]
The write [illegible]
of the [illegible]
[illegible]
It [illegible]
since [illegible]

I [illegible]
[illegible] the [illegible]

[illegible]

[illegible]

D H GRIGGS

1-9-51
Mr Bradley
for reply

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUN 22 1951
SAN FRANCISCO, CALIFORNIA

DO NOT FILL IN THIS BLOCK

Docket No. DMA-416X

Date received 5/28/51

Participation

Lead Mountain Mine, a Partnership.
Partners:-
S.E.Gramer, 119 So.Beverly Drive, Beverly Hills, Calif.
Palmer Lloyd, " " " "
O.H.Griggs, 1903 Outpost Drive, Hollywood 28, Calif.

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application May 15, 1951

Estimated cost $25,000.00

Mineral or metal Zinc-Lead-Barites

Percentage of Government participation 50%

Location of mine San Bernardino County, Calif.

Four Miles NE of Barstow, Calif.

Date of filing MF-100

DMA Docket Number, if available DMA-416X

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

S

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.

Lead Mountain Mine
(Name of company)

By O. R. Briggs
(Signature of authorized official)

May 15, 1951
(Date)

Managing Partner
(Title)

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

*Same as footnote on page 1.

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

LAKEVIEW MANGANESE MINES

CRESCENT MILLS - CALIFORNIA

May 15, 1951.

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

Gentlemen:- Attached hereto please find information in quadruplicate covering four pages descriptive of mining property known as "Lead Mountain Mine" for which we seek Government aid to the extent of 50% of a proposed expenditure of $25,000.00. This property is located in San Bernardino County, California, about 4 miles NE of the town of Barstow. The attached information is responsive to your Form MF-103 which is the only issue we have been able to find relating to minerals loans. Questions set forth in MF-103 are answered in the numerical sequence of the Form.

Much of the information attached hereto is from reports by various Mining Engineers but considerable is from our own investigation. As these reports are years old, mappings are not available. We trust that our descriptions will serve adequately in lieu of usual maps, but if not we shall be glad to furnish you with sketches taken from our examination of this property. Assays quoted are from the reports mentioned.

The undersigned obtained a cursory inspection of this property by Bureau of Mines Engineer and was advised that all funds for the purposes were now allocated to DMA and other agencies and we were advised to take the matter up with DMA. We have been furnished no conclusions by the Bureau but are acting upon its advice. ?

The undersigned is convinced that "lead Mountain Mine" is a property of unusual merit and should be developed as a substantial producer. Upon preliminary work having been done as outlined in the attached information, the undersigned is able to carry through the further stage of bringing this property to production.

If we have not been furnished with proper instruments for applying for Government aid, please either consider this a formal application for the mentioned 50% of $25,000.00 or kindly supply us with any other Forms which may be requisite for complying with your requirements.

If further data are required, we shall be glad to add to the information being herewith submitted if it is available.

Respectfully yours,

O.H.Griggs O.H. Griggs
For Lead Mountain Mine,
Crescent Mills, California.

Los Angeles, California.
May 15, 1951.

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

Gentlemen:- Responsive to your Form MF-103, we submit the following data and information relative to our Lead-Zinc property situated in San Bernardino County, California, and within four miles of Barstow:-

1. Applicant is temporarily a partnership.

2. S.E.Gramer, 119 So.Beverly Dr., Beverly Hills, Calif.
   Palmer Lloyd, " " " " "
   O.H.Griggs, 1903 Outpost Dr., Hollywood 28, Calif.

3. Not applicable.

4. Of the partnership O.H.Griggs is experienced in mining and will be the Managing Partner. His experience extends over more than 30 years of mining beginning with Iron mining in the Lake Superior District being a major owner of operations of (a) the Mahnomen open pit mine on the Cuyuna Range; (b) the Shada open pit mine on the Mesaba Range; (c) the Madrid underground mine on the Mesaba Range; and (d) the Rolling Mill Mine at Ishpeming, Mich., and others. Since 1924, he has enagaged in mining of copper in Oregon and California, gold in California, Manganese in California and others.

5. Lessee.

6. The Lead-Zinc property under discussion is owned in fee simple and there are no liens or other encumbrances against it.

7. Lease is in escrow, delivery to applicant of which is contingent upon Lessee beginning work upon the property, which work is the subject of this application. The lease terms require Lessee to do such work as will satisfy Lessee as to the merits of the property and upon so being satisfied and having notified the Owners of hte property to that effect, Lessee will then be required to bring about productive operations of the property on a scale of 200 tons of mine ore per day-- with the right to suspend without penalty in event metal prices fall below profitable levels, or conditions become such that sales are impracticable, or in event of lack of obtainable equipment due to allocations, or in event of so-called acts of God-- such production to be actual within 3 years from date of the letter of notification mentioned,which letter must be served within 1 year of delivery out of escrow of the lease. Royalty is 8% of smelter returns. Lease is for 30 years. There are no harsh provisions of the lease, the terms and conditions being standard for mining in Calif.

(Lead Mountain Mine,Cfo O.H.Griggs, Crescent Mills, Calif.)

8. This being anew venture, applicant has no financial statement to submit.

9. Applicant estimates the work of determining values, tonnages and metallurgy of the ores of the property to be approximately Twenty-five Thousand Dollars ($25,000.00) of which applicant is prepared to furnish 50% in compliance with the announced mineral program of DMA as set forth in release dated April 11, 1951.

10. This property is generally known as "Lead Mountain Mine". It consists of one whole Scetion of land-- 640 acres. The mineralized ground lies in a small mountain obtruding above the surrounding terrain, thereby lending itself to tunnel operations. No other property is involved in this application.

Legal description:- Section 36, Township 10 North, Range 1 West, San Bernardino Base Meridian, San Bernardino County, Calif.

11. So far as applicant knows this property has always been known by the name of "Lead Mountain Mine".

12. This property lies 4 miles NE of Barstow, California, which is a Division Point of the Union Pacific Ry. Of the 4 miles, 2 miles is across flat desert-like ground and 2 miles is on State Highway.

13. Source of water supply is flat land adjoining the property which is saturated by Mojave River and from which shallow wells furnish abundant water for ranches of the district-- these wells delivering 200 gallons per minute and more. Applicant has access to water supply ground and a pipe line of about one-half miles will bring water to the property and proposed millsite.

High tension power lines are within 2 miles of the property. Prices for current available vary down to .7¢ per KW. Upon production of the mentioned 200 tons per day from this mine, power requirements will total approximately 500 connected Horsepower.

14. There are no buildings, structures or machinery on this property presently. Exploration proposed by diamond drilling can be conducted from accessible underground old workings, all holes starting in ore avoiding any wastage of drilling footage.

15. Ultimate plan in mind for this property is to mill ores on the property as ideal conditions exist for such a program. Concentrates of Lead and Zinc would be shipped to smelter in the Salt Lake area and product of barites sold to consumers in the Los Angeles area.

16. (a) As nearly as can be ascertained now, operations on this property during the early twenties were carried on for the purpose of mining direct shipping rich lead ores. Tunnels were driven into the ore body near the top of ore outcroppings, all of which are open and accessible at this time. Underground drifting along the ore was

done for several hundred feet and the mentioned highgrade lead enrichments where encountered were extracted-- all of which was in the upper zones of the ore body. Winzes also were sunk for exploration one being 400 feet deep. This 400 foot winze encouraged the driving of a 1300 foot tunnel connecting at the winze bottom in ore. All of these openings are accessible excepting no ladders remain in the winzes,and a small cave occurs in the 1300 foot tunnel whixh appears to have been blasted down. There is no way of knwong the value of the ores shipped from this work, but compared to the size of the visible ores all previous shipments still leave the property practically virgin. It is believed that the miners who did the work on the property were typical of early day highgraders of the West.
(b) Bartsow has been the center of several mining operations carried on profitably and successfully. This property under discussion has been owned by people of wealth not connected with mining who have given no attention to it.
(c). Reports available are copies of originals but are by well known reputable engineers. Summing up the conclusions of these reports, those reporting extimate that there is in sight up to 2,000,000 tons of ore, with no bottoming yet found down to the 400 foot level. Many assays given in these reports may be cited:- One group of assays from none points gives the following--Lead .87%;Zinc 2.6%; Silver 1.4 oz; Barites 56.9%. Another group of seven assays gives:- Lead 4.26%; Zinc 3.2%; Barites 43.6%. Another group of five assays gives:-Lead 2.7%; Zinc 3.5%; Barites 31.5%. Silver in these assays runs from .90 oz to 5.75 oz., with an average of approximately 2.5 oz. Gold also occurs but the average is low, about .35¢. Another group of twenty-three assays gives an average of Zinc of 5.4%, with Silver about 2 oz, but lead omitted. Another group of eleven assays gives:- Lead 5.8%; Zinc 3.5%; Silver 3.5 oz; Barites 55%.

The ore body of this property will average not less than 75 feet in width and can be seen for a length of not less than 1500 feet. The ground stands remarkably well as all old openings are in good shape with little sloughing.

Reports dated 1943-1945 when an option was given to people who were unable to perform, state that metallurgy is comparatively simple. Part of applicants'plan is to have definite metallurgy done on this ore.

It should be noted that whereas Barites were non-marketable at the time work was done on this property formerly, Barites now command a ready market and at prices which alone make the ores of this property commercial.

17. Not applicable.

18. (a) Given above in 16.
(b)There are no mappings available. Assays given in 16 above.
(c) Given in 16 above.

(Lead Mountain Mine,Cfo O.H.Griggs, Crescent Mills, Calif.)

19. The foregoing, we believe, fairly well covers conditions.

20. The products from this property will be Lead Concentrate, Zinc Concentrate, either or both carrying contained precious metals, and Barites.

21. It is proposed to install ladders in the mentioned winzes, catch up the mentioned caving in the 1300 foot tunnel, diamond drill not less than three fans of holes expecting to get holes 400 feet deep and aggregating some 3600 feet of drilling. Coincidentally do wall sampling in all openings. Also obtain determinate metalurgical work on the ores sufficient to furnish positive mill flow sheet. It is calculated that all of this work will cost something less than $25,000.00. Assays of drill cores will be made from samples at hole intervals not spaced longer than 10 feet, and also save and assay sludge where cores are not complete. This work should be done in less than 90 working days.

22. This ore body outcrops for not less than 1500 feet in length and has several tunnels near its top with drifts and winzes and raises. A 1300 foot tunnel apparently designed as an operating tunnel is driven 400 feet below old workings, and at its portal is an ideal millsite. The ore occurence as reported by examining geologits is an altered lime on the eastern end and side and an alteredt andesite on the other side of the ore. In the upper reaches of the ore there is some oxidation but sulphides predominate. Assays have been given in 16 above. There are no mappings available. All of the ore body down to and somewhat below the 1300 foot tunnel is above the level of the surrounding terrain. The general area around this mine is at about the same altitude as the city of Barstow.

23. Response to this can be summarized by repeating applicants' plan for expenditure of the above mentioned proposed outlay. The plan is to do sufficient diamond drilling to confirm information available as well as observation and investigation of applicants; also to obtain definite metallurgical tests for treatment of the ores of the property. Labor involved would be confined to crew engaged in diamond drilling with usual supervision and geologic study. There would be no construction of buildings nor installation of equipment other than merely needed for such work. Upon satisfactory results having been obtained, applicants plan to finance installation of all equipment and machinery for operating this property. Diamond drilling proposed hereunder would be by contract at prevailing prices therefor.

24. Applicant believes that the program of work proposed can be completed within 90 days from the time work is commenced, and that total cost will be well within the sum of $25,000.00.

Applicant for the present will be identified as "Lead Mountain Mines".

O.H.Griggs
For Lead Mountain Mines

(Lead Mountain Mine, Cfo O.H.Griggs, Crescent Mills, Calif.)

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUN 22 1951
SAN FRANCISCO, CALIFORNIA

DO NOT FILL IN THIS BLOCK

Docket No. Dma-416X

Date received 5/28/51

Participation

Lead Mountain Mine, a Partnership.
Partners:-
S.E.Gramer, 119 So.Beverly Drive, Beverly Hills, Calif.
Palmer Lloyd, " " " "
O.H.Griggs, 1903 Outpost Drive, Hollywood 28, Calif.

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application May 15, 1951

Estimated cost $25,000.00

Mineral or metal Zinc-Lead-Barites

Percentage of Government participation 50%

Location of mine San Bernardino County, Calif.

Four Miles NE of Barstow, Calif.

Date of filing MF-100

DMA Docket Number, if available Dma-416X

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.

Lead Mountain Mine (Name of company) — By O. H. Griggs (Signature of authorized official)

May 15, 1951 (Date) — Managing Partner (Title)

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

*Same as footnote on page 1.

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

LAKEVIEW MANGANESE MINES

CRESCENT MILLS - CALIFORNIA

May 15, 1951.

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

Gentlemen:- Attached hereto please find information in quadruplicate covering four pages descriptive of mining property known as "Lead Mountain Mine" for which we seek Government aid to the extent of 50% of a proposed expenditure of $25,000.00. This property is located in San Bernardino County, California, about 4 miles NE of the town of Barstow. The attached information is responsive to your Form MF-103 which is the only issue we have been able to find relating to minerals loans. Questions set forth in MF-103 are answered in the numerical sequence of the Form.

Much of the information attached hereto is from reports by various Mining Engineers but considerable is from our own investigation. As these reports are years old, mappings are not available. We trust that our descriptions will serve adequately in lieu of usual maps, but if not we shall be glad to furnish you with sketches taken from our examination of this property. Assays quoted are from the reports mentioned.

The undersigned obtained a cursory inspection of this property by Bureau of Mines Engineer and was advised that all funds for the purposes were now allocated to DMA and other agencies and we were advised to take the matter up with DMA. We have been furnished no conclusions by the Bureau but are acting upon its advice.

The undersigned is convinced that "lead Mountain Mine" is a property of unusual merit and should be developed as a substantial producer. Upon preliminary work having been done as outlined in the attached information, the undersigned is able to carry through the further stage of bringing this property to production.

If we have not been furnished with proper instruments for applying for Government aid, please either consider this a formal application for the mentioned 50% of $25,000.00 or kindly supply us with any other Forms which may be requisite for complying with your requirements.

If further data are required, we shall be glad to add to the information being herewith submitted if it is available.

Respectfully yours,

O.H.Griggs O H Griggs
For Lead Mountain Mine,
Crescent Mills, California.

Los Angeles, California.
May 15, 1951.

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

Gentlemen:- Responsive to your Form MF-103, we submit the following data and information relative to our Lead-Zinc property situated in San Bernardino County, California, and within four miles of Barstow:-

1. Applicant is temporarily a partnership.

2. S.E.Gramer, 119 So.Beverly Dr., Beverly Hills, Calif.
Palmer Lloyd, " " " " "
O.H.Griggs, 1903 Outpost Dr., Hollywood 28, Calif.

3. Not applicable.

4. Of the partnership O.H.Griggs is experienced in mining and will be the Managing Partner. His experience extends over more than 30 years of mining beginning with Iron mining in the Lake Superior District being a major owner of operations of (a) the Mahnomen open pit mine on the Cuyuna Range; (b) the Shada open pit mine on the Mesaba Range; (c) the Madrid underground mine on the Mesaba Range; and (d) the Rolling Mill Mine at Ishpeming, Mich., and others. Since 1924, he has enagaged in mining of copper in Oregon and California, gold in California, Manganese in California and others.

5. Lessee.

6. The Lead-Zinc property under discussion is owned in fee simple and there are no liens or other encumbrances against it.

7. Lease is in escrow, delivery to applicant of which is contingent upon Lessee beginning work upon the property, which work is the subject of this application. The lease terms require Lessee to do such work as will satisfy Lessee as to the merits of the property and upon so being satisfied and having notified the Owners of hte property to that effect, Lessee will then be required to bring about productive operations of the property on a scale of 200 tons of mine ore per day-- with the right to suspend without penalty in event metal prices fall below profitable levels, or conditions become such that sales are impracticable, or in event of lack of obtainable equipment due to allocations, or in event of so-called acts of God-- such production to be actual within 3 years from date of the letter of notification mentioned,which letter must be served within 1 year of dalivery out of escrow of the lease. Royalty is 8% of smelter returns. Lease is for 30 years. There are no harsh provisions of the lease, the terms and conditions being standard for mining in Calif.

(Lead Mountain Mine,Cfo O.H.Griggs, Crescent Mills, Calif.)

8. This being anew venture, applicant has no financial statement to submit.

9. Applicant estimates the work of determining values, tonnages and metallurgy of the ores of the property to be approximately Twenty-five Thousand Dollars ($25,000.00) of which applicant is prepared to furnish 50% in compliance with the announced mineral program of DMA as set forth in release dated April 11, 1951.

10. This property is generally known as "Lead Mountain Mine". It consists of one whole Scetion of land-- 640 acres. The mineralized ground lies in a small mountain obtruding above the surrounding terrain, thereby lending itself to tunnel operations. No other property is involved in this application.

Legal description:- Section 36, Township 10 North, Range 1 West, San Bernardino Base Meridian, San Bernardino County, Calif.

11. So far as applicant knows this property has always been known by the name of "Lead Mountain Mine".

12. This property lies 4 miles NE of Barstow, California, which is a Division Point of the Union Pacific Ry. Of the 4 miles, 2 miles is across flat desert-like ground and 2 miles is on State Highway.

13. Source of water supply is flat land adjoining the property which is saturated by Mojave River and from which shallow wells furnish abundant water for ranches of the district-- these wells delivering 200 gallons per minute and more. Applicant has access to water supply ground and a pipe line of about one-half miles will bring water to the property and proposed millsite.

High tension power lines are within 2 miles of the property. Prices for current available vary down to .7¢ per KW. Upon production of the mentioned 200 tons per day from this mine, power requirements will total approximately 500 connected Horsepower.

14. There are no buildings, structures or machinery on this property presently. Exploration proposed by diamond drilling can be conducted from accessible underground old workings, all holes starting in ore avoiding any wastage of drilling footage.

15. Ultimate plan in mind for this property is to mill ores on the property as ideal conditions exist for such a program. Concentrates of Lead and Zinc would be shipped to smelter in the Salt Lake area and product of barites sold to consumers in the Los Angeles area.

16. (a) As nearly as can be ascertained now, operations on this property during the early twenties were carried on for the purpose of mining direct shipping rich lead ores. Tunnels were driven into the ore body near the top of ore outcroppings, all of which are open and accessible at this time. Underground drifting along the ore was

done for several hundred feet and the mentioned highgrade lead enrichments where encountered were extracted-- all of which was in the upper zones of the ore body. Winzes also were sunk for exploration one being 400 feet deep. This 400 foot winze encouraged the driving of a 1300 foot tunnel connecting at the winze bottom in ore. All of these openings are accessible excepting no ladders remain in the winzes, and a small cave occurs in the 1300 foot tunnel whixh appears to have been blasted down. There is no way of knwong the value of the ores shipped from this work, but compared to the size of the visible ores all previous shipments still leave the property practically virgin. It is believed that the miners who did the work on the property were typical of early day highgraders of the West.
(b) Bartsow has been the center of several mining operations carried on profitably and successfully. This property under discussion has been owned by people of wealth not connected with mining who have given no attention to it.
(c). Reports available are copies of originals but are by well known reputable engineers. Summing up the conclusions of these reports, those reporting extimate that there is in sight up to 2,000,000 tons of ore, with no bottoming yet found down to the 400 foot level. Many assays given in these reports may be cited:- One group of assays from none points gives the following--Lead .87%;Zinc 2.6%; Silver 1.4 oz; Barites 56.9%. Another group of seven assays gives:- Lead 4.26%; Zinc 3.2%; Barites 43.6%. Another group of five assays gives:-Lead 2.7%; Zinc 3.5%; Barites 31.5%. Silver in these assays runs from .90 oz to 5.75 oz., with an average of approximately 2.5 oz. Gold also occurs but the average is low, about .35%. Another group of twenty-three assays gives an average of Zinc of 5.4%, with Silver about 2 oz, but lead omitted. Another group of eleven assays gives:- Lead 5.8%; Zinc 3.5%; Silver 3.5 oz; Barites 55%.

The ore body of this property will average not less than 75 feet in width and can be seen for a length of not less than 1500 feet. The ground stands remarkably well as all old openings are in good shape with little sloughing.

Reports dated 1943-1945 when an option was given to people who were unable to perform, state that metallurgy is comparatively simple. Part of applicants'plan is to have definite metallurgy done on this ore.

It should be noted that whereas Barites were non-marketable at the time work was done on this property formerly, Barites now command a ready market and at prices which alone make the ores of this property commercial.

17. Not applicable.

18. (a) Given above in 16.
(b) There are no mappings available. Assays given in 16 above.
(c) Given in 16 above.

(Lead Mountain Mine,Cfo O.H.Griggs, Crescent Mills, Calif.)

19. The foregoing, we believe, fairly well covers conditions.

20. The products from this property will be Lead Concentrate, Zinc Concentrate, either or both carrying contained precious metals, and Barites.

21. It is proposed to install ladders in the mentioned winzes, catch up the mentioned caving in the 1300 foot tunnel, diamond drill not less than three fans of holes expecting to get holes 400 feet deep and aggregating some 3600 feet of drilling. Coincidentally do wall-sampling in all openings. Also obtain determinate metalurgical work on the ores sufficient to furnish positive mill flow sheet. It is calculated that all of this work will cost something less than $25,000.00. Assays of drill cores will be made from samples at hole intervals not spaced longer than 10 feet, and also save and assay sludge where cores are not complete. This work should be done in less than 90 working days.

22. This ore body outcrops for not less than 1500 feet in length and has several tunnels near its top with drifts and winzes and raises. A 1300 foot tunnel apparently designed as an operating tunnel is driven 400 feet below old workings, and at its portal is an ideal millsite. The ore occurence as reported by examining geologits is an altered lime on the eastern end and side and an alteredt andesite on the other side of the ore. In the upper reaches of the ore there is some oxidation but sulphides predominate. Assays have been given in 16 above. There are no mappings available. All of the ore body down to and somewhat below the 1300 foot tunnel is above the level of the surrounding terrain. The general area around this mine is at about the same altitude as the city of Barstow.

23. Response to this can be summarized by repeating applicants' plan for expenditure of the above mentioned proposed outlay. The plan is to do sufficient diamond drilling to confirm information available as well as observation and investigation of applicants; also to obtain definite metallurgical tests for treatment of the ores of the property. Labor involved would be confined to crew engaged in diamond drilling with usual supervision and geologic study. There would be no construction of buildings nor installation of equipment other than merely needed for such work. Upon satisfactory results having been obtained, applicants plan to finance installation of all equipment and machinery for operating this property. Diamond drilling proposed hereunder would be by contract at prevailing prices therefor.

24. Applicant believes that the program of work proposed can be completed within 90 days from the time work is commenced, and that total cost will be well within the sum of $25,000.00.

Applicant for the present will be identified as "Lead Mountain Mines".

O.H.Griggs O.H. Griggs
For Lead Mountain Mines

(Lead Mountain Mine, Cfo O.H.Griggs, Crescent Mills, Calif.)

DEPARTMENT OF THE NAVY
Defense Materials Administration
DEMEDA
MAY 28 1951
LIBRARY
Executive Secretary

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERI
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-416X

Date received 5/28/51

Participation

Lead Mountain Mine, a Partnership.
Partners:-
S.E.Gramer, 119 So.Beverly Drive, Beverly Hills, Calif.
Palmer Lloyd, " " " "
O.H.Griggs, 1903 Outpost Drive, Hollywood 28, Calif.

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application May 15, 1951

Estimated cost $25,000.00

Mineral or metal Zinc-Lead-Barites

Percentage of Government participation 50%

Location of mine San Bernardino County, Calif.

Four Miles NE of Barstow, Calif.

Date of filing MF-100

DMA Docket Number, if available dma-416X

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

Dma 416 Exp

856

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.

Lead Mountain Mine (Name of company) — By O. N. Griggs (Signature of authorized official)

May 15, 1951 (Date) — Managing Partner (Title)

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

*Same as footnote on page 1.

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

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-416X

Date received 5/28/51

Participation

Lead Mountain Mine, a Partnership.
Partners:-
S.E.Cramer, 119 So.Beverly Drive, Beverly Hills, Calif.
Palmer Lloyd, " " "
O.H.Griggs, 1903 Outpost Drive, Hollywood 28, Calif.

Name and address of applicant

Date

FILL IN THIS BLOCK

Date of application May 15, 1951

Estimated cost $25,000.00

Mineral or metal Zinc-Lead-Barites

Percentage of Government participation 50%

Location of mine San Bernardino County, Calif.

Four Miles NE of Barstow, Calif.

Date of filing MF-100

DMA Docket Number, if available DMA-416X

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.

Lead Mountain Mine (Name of company) — By O.H.Griggs (Signature of authorized official)

May 15, 1951 (Date) — Managing Partner (Title)

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

*Same as footnote on page 1.

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

LAKEVIEW MANGANESE MINES

CRESCENT MILLS - CALIFORNIA

May 15, 1951.

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

Gentlemen:- Attached hereto please find information in quadruplicate covering four pages descriptive of mining property known as "Lead Mountain Mine" for which we seek Government aid to the extend of 50% of a proposed expenditure of $25,000.00. This property is located in San Bernardino County, California, about 4 miles NE of the town of Barstow. The attached information is responsive to your Form MF-103 which is the only issue we have been able to find relating to minerals loans. Questions set forth in MF-103 are answered in the numerical sequence of the Form.

Much of the information attached hereto is from reports by various Mining Engineers but considerable is from our own investigation. As these reports are years old, mappings are not available. We trust that our descriptions will serve adequately in lieu of usual maps, but if not we shall be glad to furnish you with sketches taken from our examination of this property. Assays quoted are from the reports mentioned.

The undersigned obtained a cursory inspection of this property by Bureau of Mines Engineer and was advised that all funds for the purposes were now allocated to DMA and other agencies and we were advised to take the matter up with DMA. We have been furnished no conclusions by the Bureau but are acting upon its advice.

The undersigned is convinced that "lead Mountain Mine" is a property of unusual merit and should be developed as a substantial producer. Upon preliminary work having been done as outlined in the attached information, the undersigned is able to carry through the further stage of bringing this property to production.

If we have not been furnished with proper instruments for applying for Government aid, please either consider this a formal application for the mentioned 50% of $25,000.00 or kindly supply us with any other Forms which may be requisite for complying with your requirements.

If further data are required, we shall be glad to add to the information being herewith submitted if it is available.

Respectfully yours,

O.N.Griggs O N Griggs
For Lead Mountain Mine,
Crescent Mills, California.

Los Angeles, California.
May 15, 1951.

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

Gentlemen:- Responsive to your Form MF-103, we submit the following data and information relative to our Lead-Zinc property situated in San Bernardino County, California, and within four miles of Barstow:-

1. Applicant is temporarily a partnership.

2. S.E.Cramer, 119 So.Beverly Dr., Beverly Hills, Calif.
   Palmer Lloyd, " " " " "
   O.H.Griggs, 1903 Outpost Dr., Hollywood 28, Calif.

3. Not applicable.

4. Of the partnership O.H.Griggs is experienced in mining and will be the Managing Partner. His experience extends over more than 30 years of mining beginning with Iron mining in the Lake Superior District being a major owner of operations of (a) the Mahnomen open pit mine on the Cuyuna Range; (b) the Shada open pit mine on the Mesaba Range; (c) the Madrid underground mine on the Mesaba Range; and (d) the Rolling Mill Mine at Ishpeming, Mich., and others. Since 1924, he has enagaged in mining of copper in Oregon and California, gold in California, Manganese in California and others.

5. Lessee.

6. The Lead-Zinc property under discussion is owned in fee simple and there are no liens or other encumbrances against it.

7. Lease is in escrow, delivery to applicant of which is contingent upon Lessee beginning work upon the property, which work is the subject of this application. The lease terms require Lessee to do such work as will satisfy Lessee as to the merits of the property and upon so being satisfied and having notified the Owners of hte property to that effect, Lessee will then be required to bring about productive operations of the property on a scale of 200 tons of mine ore per day-- with the right to suspend without penalty in event metal prices fall below profitable levels, or conditions become such that sales are impracticable, or in event of lack of obtainable equipment due to allocations, or in event of so-called acts of God-- such production to be actual within 3 years from date of the letter of notification mentioned, which letter must be served within 1 year of delivery out of escrow of the lease. Royalty is 8% of smelter returns. Lease is for 30 years. There are no harsh provisions of the lease, the terms and conditions being standard for mining in Calif.

(Lead Mountain Mine, Cfo O.H.Griggs, Crescent Mills, Calif.)

8. This being anew venture, applicant has no financial statement to submit.

9. Applicant estimates the work of determining values, tonnages and metallurgy of the ores of the property to be approximately Twenty-five Thousand Dollars ($25,000.00) of which applicant is prepared to furnish 50% in compliance with the announced mineral program of DMA as set forth in release dated April 11, 1951.

10. This property is generally known as "Lead Mountain Mine". It consists of one whole Section of land-- 640 acres. The mineralized ground lies in a small mountain obtruding above the surrounding terrain, thereby lending itself to tunnel operations. No other property is involved in this application.
Legal description:- Section 36, Township 10 North, Range 1 West, San Bernardino Base Meridian, San Bernardino County, Calif.

11. So far as applicant knows this property has always been known by the name of "Lead Mountain Mine".

12. This property lies 4 miles NE of Barstow, California, which is a Division Point of the Union Pacific Ry. Of the 4 miles, 2 miles is across flat desert-like ground and 2 miles is on State Highway.

13. Source of water supply is flat land adjoining the property which is saturated by Mojave River and from which shallow wells furnish abundant water for ranches of the district-- these wells delivering 200 gallons per minute and more. Applicant has access to water supply ground and a pipe line of about one-half miles will bring water to the property and proposed millsite.
High tension power lines are within 2 miles of the property. Prices for current available vary down to .7¢ per KW. Upon production of the mentioned 200 tons per day from this mine, power requirements will total approximately 500 connected Horsepower.

14. There are no buildings, structures or machinery on this property presently. Exploration proposed by diamond drilling can be conducted from accessible underground old workings, all holes starting in ore avoiding any wastage of drilling footage.

15. Ultimate plan in mind for this property is to mill ores on the property as ideal conditions exist for such a program. Concentrates of Lead and Zinc would be shipped to smelter in the Salt Lake area and product of barites sold to consumers in the Los Angeles area.

16. (a) As nearly as can be ascertained now, operations on this property during the early twenties were carried on for the purpose of mining direct shipping rich lead ores. Tunnels were driven into the ore body near the top of ore outcroppings, all of which are open and accessible at this time. Underground drifting along the ore was

done for several hundred feet and the mentioned highgrade lead enrichments where encountered were extracted-- all of which was in the upper zones of the ore body. Winzes also were sunk for exploration one being 400 feet deep. This 400 foot winze encouraged the driving of a 1300 foot tunnel connecting at the winze bottom in ore. All of these openings are accessible excepting no ladders remain in the winzes, and a small cave occurs in the 1300 foot tunnel which appears to have been blasted down. There is no way of knowing the value of the ores shipped from this work, but compared to the size of the visible ores all previous shipments still leave the property practically virgin. It is believed that the miners who did the work on the property were typical of early day highgraders of the West.
(b) Bartsow has been the center of several mining operations carried on profitably and successfully. This property under discussion has been owned by people of wealth not connected with mining who have given no attention to it.
(c). Reports available are copies of originals but are by well known reputable engineers. Summing up the conclusions of these reports, those reporting extimate that there is in sight up to 2,000,000 tons of ore, with no bottoming yet found down to the 400 foot level. Many assays given in these reports may be cited:- One group of assays from nine points gives the following--Lead .87%; Zinc 2.6%; Silver 1.4 oz; Barites 56.9%. Another group of seven assays gives:- Lead 4.26%; Zinc 3.2%; Barites 43.6%. Another group of five assays gives:-Lead 2.7%; Zinc 3.5%; Barites 31.5%. Silver in these assays runs from .90 oz to 5.75 oz., with an average of approximately 2.5 oz. Gold also occurs but the average is low, about .35%. Another group of twenty-three assays gives an average of Zinc of 5.4%, with Silver about 2 oz, but lead omitted. Another group of eleven assays gives:- Lead 5.8%; Zinc 3.5%; Silver 3.5 oz; Barites 55%.

The ore body of this property will average not less than 75 feet in width and can be seen for a length of not less than 1500 feet. The ground stands remarkably well as all old openings are in good shape with little sloughing.

Reports dated 1943-1945 when an option was given to people who were unable to perform, state that metallurgy is comparatively simple. Part of applicants'plan is to have definite metallurgy done on this ore.

It should be noted that whereas Barites were non-marketable at the time work was done on this property formerly, Barites now command a ready market and at prices which alone make the ores of this property commercial.

17. Not applicable.

18. (a) Given above in 16.
(b) There are no mappings available. Assays given in 16 above.
(c) Given in 16 above.

(Lead Mountain Mine, Cfo O.H.Griggs, Crescent Mills, Calif.)

19. The foregoing, we believe, fairly well covers conditions.

20. The products from this property will be Lead Concentrate, Zinc Concentrate, either or both carrying contained precious metals, and Barites.

21. It is proposed to install ladders in the mentioned winzes, catch up the mentioned caving in the 1300 foot tunnel, diamond drill not less than three fans of holes expecting to get holes 400 feet deep and aggregating some 3600 feet of drilling. Coincidentally do wall sampling in all openings. Also obtain determinate metalurgical work on the ores sufficient to furnish positive mill flow sheet. It is calculated that all of this work will cost something less than $25,000.00. Assays of drill cores will be made from samples at hole intervals not spaced longer than 10 feet, and also save and assay sludge where cores are not complete. This work should be done in less than 90 working days.

22. This ore body outcrops for not less than 1500 feet in length and has several tunnels near its top with drifts and winzes and raises. A 1300 foot tunnel apparently designed as an operating tunnel is driven 400 feet below old workings, and at its portal is an ideal millsite. The ore occurence as reported by examining geologits is an altered lime on the eastern end and side and an altered andesite on the other side of the ore. In the upper reaches of the ore there is some oxidation but sulphides predominate. Assays have been given in 16 above. There are no mappings available. All of the ore body down to and somewhat below the 1300 foot tunnel is above the level of the surrounding terrain. The general area around this mine is at about the same altitude as the city of Barstow.

23. Response to this can be summarized by repeating applicants' plan for expenditure of the above mentioned proposed outlay. The plan is to do sufficient diamond drilling to confirm information available as well as observation and investigation of applicants; also to obtain definite metallurgical tests for treatment of the ores of the property. Labor involved would be confined to crew engaged in diamond drilling with usual supervision and geologic study. There would be no construction of buildings nor installation of equipment other than merely needed for such work. Upon satisfactory results having been obtained, applicants plan to finance installation of all equipment and machinery for operating this property. Diamond drilling proposed hereunder would be by contract at prevailing prices therefor.

24. Applicant believes that the program of work proposed can be completed within 90 days from the time work is commenced, and that total cost will be well within the sum of $25,000.00.

Applicant for the present will be identified as "Lead Mountain Mines".

O.H.Griggs O.H. Griggs
For Lead Mountain Mines

(Lead Mountain Mine, Cfo O.H.Griggs, Crescent Mills, Calif.)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 28 1951
[illegible] F. STROBEL
Executive Secretary