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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	NOVEMBER 1, 1951
To:	Reports and Records	Date	NOV 8 1951
To:		Date	
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DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1531 X

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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:	Coordinating Committee	Date	JUL 24 1951
To:	Field Team	Date	JUL 27 1951
To:	Field	Date	8-7-51
To:		Date	
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CONTROLLED DOCUMENT

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 1531

To: Reports and Records Branch L. E. Kramer & Sons

From: Lead Zinc Branch

Date: July 6 1951

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

Forwarded to _____

Type of request changed to:

_____

Denied ☐ Withdrawn ☐

Approved in amount of $ _____

Other action, specify:

On hand - awaiting further information from applicant

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

NOV 8 1951

Memorandum

Re: DMA-1531
L. E. Kramer and Son
Tooele, Utah
Highland Lassie mine
Tooele County, Utah
Exploration loan, $10,000
Lead-zinc

To: Reports and Records Unit
Administrative Management Div.

From: Lead-Zinc Branch

Subject: Recommendation for denial of exploration loan

The properties involved have been examined and reported on by the field team.

The applicant requested a $10,000 exploration loan on a participating basis to drive a crosscut from the Highland Lassie No. 3 claim about 800 feet lower than the present workings to explore for the downward extension of the ore.

The country rock is chloritic quartzite with interbedded micaceous shale and slate. The rocks are cut by bedding faults which are offset by later normal faults.

In the Highland Lassie mine mineralization occurs in a bedding fault which strikes N-S and dips 10° to 20° E. The vein varies from 2 to 36 inches in thickness and contains quartz, iron and manganese oxides, pyrite, chalcopyrite, galena, and carbonates of lead and zinc.

Workings of the Highland Lassie consist of three short inclined adits which were driven east from the outcrop down the dip of the mineralized bedding fault. About 70 ft. from the portal a normal fault striking N 35° E and dipping 45° W cuts off the mineralized zone. The amount of displacement could not be determined.

Reserves consist of a few tons of highly oxidized lead, zinc, and silver-bearing ore.

No record of production previous to 1935 is available. In 1935 and 1936 about 25 tons of good grade lead-silver ore was mined. In 1947 about 12½ tons of ore averaging 15.5% Pb, 12.1% Zn, and 2.89 oz. Ag were produced. No mining has been done since that time.

Because of the cross faulting and the low dip of the bedding fault, the proposed exploration has little assurance of intersecting the mineralized zone. In addition, the deposits are small, irregular, and discontinuous and there are no indications of the possible existence of extensive replacement or fissure deposits of minable size and grade. The field team, therefore, recommends that the application be denied. The Lead-Zinc Branch concurs with this recommendation.

Attached hereto are:

3 Forms MF-103 with attached exhibits.
3 " MF-100
Letter of July 2 from applicant with additional information.
Letter of transmittal from Tom Lyon to field team.
1 Field team report.

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

Approved:

Tom Lyon
Director, Supply Division

FILE COPY
SURNAME: 350

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

NOV 8 1951

Lyons, (ETM)
McKnight
Johnson

Memorandum

Re: DMA-1531
L. E. Kramer and Son
Tooele, Utah
Highland Lassie mine
Tooele County, Utah
Exploration loan, $10,000
Lead-zinc

To: Reports and Records Unit
Administrative Management Div.

From: Lead-Zinc Branch

Subject: Recommendation for denial of exploration loan

The properties involved have been examined and reported on by the field team.

The applicant requested a $10,000 exploration loan on a participating basis to drive a crosscut from the Highland Lassie No. 3 claim about 300 feet lower than the present workings to explore for the downward extension of the ore.

The country rock is chloritic quartzite with interbedded micaceous shale and slate. The rocks are cut by bedding faults which are offset by later normal faults.

In the Highland Lassie mine mineralization occurs in a bedding fault which strikes N-S and dips 10° to 20° E. The vein varies from 2 to 36 inches in thickness and contains quartz, iron and manganese oxides, pyrite, chalcopyrite, galena, and carbonates of lead and zinc.

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NOV 8 1951

Because of the cross faulting and the low dip of the bedding fault, the proposed exploration has little assurance of intersecting the mineralized zone. In addition, the deposits are small, irregular, and discontinuous and there are no indications of the possible existence of extensive replacement or fissure deposits of minable size and grade. The field team, therefore, recommends that the application be denied. The Lead-Zinc Branch concurs with this recommendation.

Attached hereto are:

3 Forms MF-103 with attached exhibits.
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Letter of July 2 from applicant with additional information.
Letter of transmittal from Tom Lyon to field team.
1 Field team report.

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

Approved:

Director, Supply Division

EJLyons:emp
G 10-31-51
Copies to: J. H. East, Jr. Region IV (2)
Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

FILE COPY
SURNAME: 350

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

NOV 8 1951

Re: Docket DMA-1531

Lyons (E.T.M.)
McKnight
Bishop
Johnson

L. E. Kramer and Son
Box 456
Tooele, Utah

Gentlemen:

The field team report on your property, the Highland Lassie mine in Tooele County, Utah, has been received.

Review of the report indicates that the deposits of the Highland Lassie are small, irregular, and discontinuous, and that there is little possibility of further exploration uncovering a sufficient tonnage of ore of minable size and grade to warrant Government participation. We regret, therefore, that your application must be denied.

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

Very truly yours,
Tom Lyon

Tom Lyon, Director
Supply Division

BJ 11-8

EJLyons:emp
G 10-31-51
Copies to: J. H. East, Jr. Region IV (2)
Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. files
DMA docket files

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.
OCT 29 9 00 AM '51

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

224 New Customhouse
Denver 2, Colorado

October 24, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1531X, L. E. Kramer and Son; applicant, Highland Lassie Lead-Zinc Mine, Tooele County, Utah

Enclosed herewith are the original and two copies of the report on the subject docket.

We concur with the conclusions and recommendations of the examining team that the exploration loan of $10,000 be denied.

The brochure is enclosed.

J. H. East, Jr.

A. H. Koschmann

Enclosure

OCT 29 1951

Mining Division
Region IV

October 24, 1952

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1531X, L. R. Kramer and Son; applicant, Highland Laemie Lead-Zinc Mine, Tooele County, Utah

The application of the subject docket was for an exploration loan of $10,000.

The purpose of this loan was to explore the downward extension of exploited ore bodies by means of an adit and crosscut.

Ore reserves are limited to a few tons and the geologic probability for discovery of additional reserves are unfavorable.

The examining team recommends denial of the loan, with which we concur.

Paul T. Allsman

Mining Division
Date Rec'd.

OCT 22 1951

BUREAU OF MINES
Denver, Colorado

October 19, 1951

Memorandum

TO: Paul T. Allaman, Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA 1531X, Highland Lassie Mine, Tooele County, Utah

Enclosed are eight copies of an engineering report prepared by R. L. Middleton. A section on Summary, Conclusions and Recommendations is also included.

The original brochure is enclosed.

Stephen R. Wilson

Stephen R. Wilson

Enclosures - 3

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

October 15, 1951

Memorandum

To: DMA Field Team, Region IV

From: Ogden Tweto

Subject: DMA Docket 1531X, L. E. Cramer and Sons, Highland Lassie or Last Hope, Lead-Zinc Prospect, Erickson Mining District, Tooele County, Utah.

Enclosed are eight copies of the geologic report by B. J. Sharp of the U. S. Geological Survey covering the above docket. It has been recommended that the loan be denied.

The brochure will accompany the U. S. Bureau of Mines report.

Ogden Tweto

Ogden Tweto, Alternate
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

Room 307, 320 South Main
Salt Lake City 1, Utah
11 October 1951

Memorandum

To: A. H. Koschmann, Field Team, Region IV

From: Ralph J. Roberts

Subject: Docket DMA-1531X, L. E. Cramer and Sons, Highland Lassie or Last Hope, Lead-Zinc Prospect, Erickson Mining District, Tooele County, Utah.

Enclosed are eight copies of a geologic report on the Highland Lassie prospect in the Erickson Mining District, Tooele County, Utah.

The Highland Lassie Mine is in an area of quartzites, shales, and slates. The ore bodies are very small and discontinuous and are in a gouge zone along a bedding fault that is cut off by a normal fault.

Ore reserves are limited to a few tons and there is no indication that exploration will reveal any large bodies of commercial ore. It is concluded that the possibilities for discovering important new reserves of lead-zinc ore are not good, and it is recommended that the request for an exploration loan be denied.

I concur with the examining geologist that the request for an exploration loan be denied.

for - Ralph J. Roberts

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA-1531X, L. E. Cramer and Sons

Highland Lassie or Last Hope, Lead-Zinc Prospect

Erickson Mining District, Tooele County, Utah

B. J. Sharp, Geologist
U. S. Geological Survey

October 11, 1951

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. L. Middleton and Byron Sharp

The Highland Lassie Mine was examined during September 1951 by personnel of the Bureau of Mines and Geological Survey for the purpose of evaluating a DMA loan request.

Predominant rocks in the area consist of chloritic quartzite and micaceous shale and slate. The ore bodies occur in a gouge zone along a bedding fault and are small and discontinuous. The bedding fault is terminated by a normal fault approximately 70 feet from the portal of the main adit.

Ore reserves are limited to a few tons and there is no indication that exploration will reveal bodies of commercial significance. It is concluded that geologic possibilities for discovering additional ores are not promising, and it is therefore recommended that the loan request be denied.

CONTENTS

	Page
Geology	1
Ore Deposits	1
Ore Reserves	1
Proposed Explorations	2
Summary and Conclusions	2

ILLUSTRATIONS

Figure 1. Index map of Utah showing location of the Highland Lassie or Last Hope Lead-Zinc prospect, Erickson Mining District, Tooele County, Utah

Figure 2. Claim map of Highland Lassie and Last Hope Lead-Zinc prospect, Erickson Mining District, Tooele County, Utah.

Figure 3. Detailed map of the Highland Lassie or Last Hope Lead-Zinc prospect, Erickson Mining District, Tooele County, Utah

Docket DMA-1531X, L. E. Cramer and Sons

Highland Lassie or Last Hope, Lead-Zinc Prospect

Erickson Mining District, Tooele County, Utah

GEOLOGY

The Highland Lassie Mine is in an area of chloritic quartzite and interbedded green micaceous shale and slate. Many bedding faults cut the rocks and in turn are displaced by later normal faults.

ORE DEPOSITS

Ore deposits in the district are in small pods and stringers localized along bedding slips and cross faults.

At the Highland Lassie mine the ore minerals are galena and carbonates of lead and zinc. Vein quartz is the principal gangue mineral. The mineralization is in a gouge zone as much as one foot thick along a bedding slip striking N-S and dipping 10° E. Only one stringer of galena approximately two feet long and two inches wide was found in the gouge zone. About 70 feet from the portal a normal fault that strikes N. 35° E. and dips 45° W. cuts off the mineralized zone. The amount of displacement could not be determined.

ORE RESERVES

No reserves of any class have been calculated for this property. The past history of the property indicates that the deposits are likely to be small and discontinuous. Mineralization is limited to small stringers in fractures and it is unlikely that any large minable bodies of ore of commercial grade will be found.

PROPOSED EXPLORATION

The applicant proposes to drive a crosscut from the Highland Lassie No. 3 claim (fig. 2) approximately 800 feet lower than the present workings in the hope of intersecting the ore bed at depth.

The examining geologist does not agree with the proposed exploration program. A normal fault has cut off the ore and the applicant's proposed exploration is on the opposite direction of the offset, and at too great a depth to be within any ore zone. The amount of offset is not determinable at present. The quantity of minable ore is too small to warrant any project at this time.

SUMMARY AND CONCLUSIONS

The Highland Lassie mine is in an area of chloritic quartzite and micaceous shale and slate. The ore bodies are very small and discontinuous and are in a gouge zone along a bedding fault that is cut off by a normal fault about 70 feet from the portal of the adit. The ore minerals are galena and lead and zinc carbonates. Quartz in local stringers accompanies the ore minerals.

Ore reserves are limited to a few tons and there is no indication that exploration will reveal any large bodies of commercial ore. The past history of the property indicates that any new deposits are likely to be small and discontinuous.

It is concluded that the geological possibilities for discovering an important new reserve of lead-zinc ore are not good, and it is recommended that the request for an exploration loan be denied.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS ADMINISTRATION
DOCKET NO. 1531-X

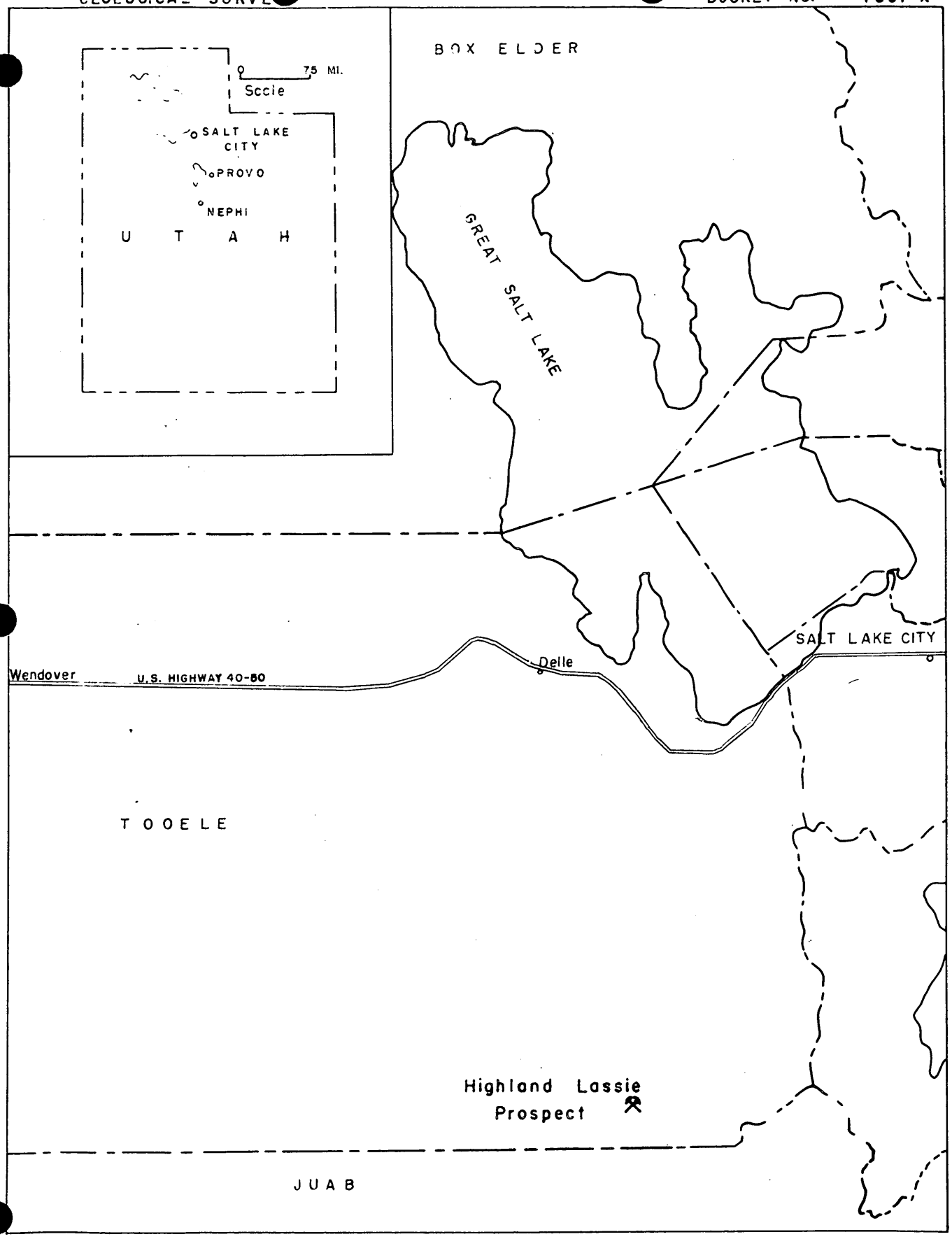


FIG. 1 INDEX MAP OF UTAH

0 8 16 24 MILES
Scale

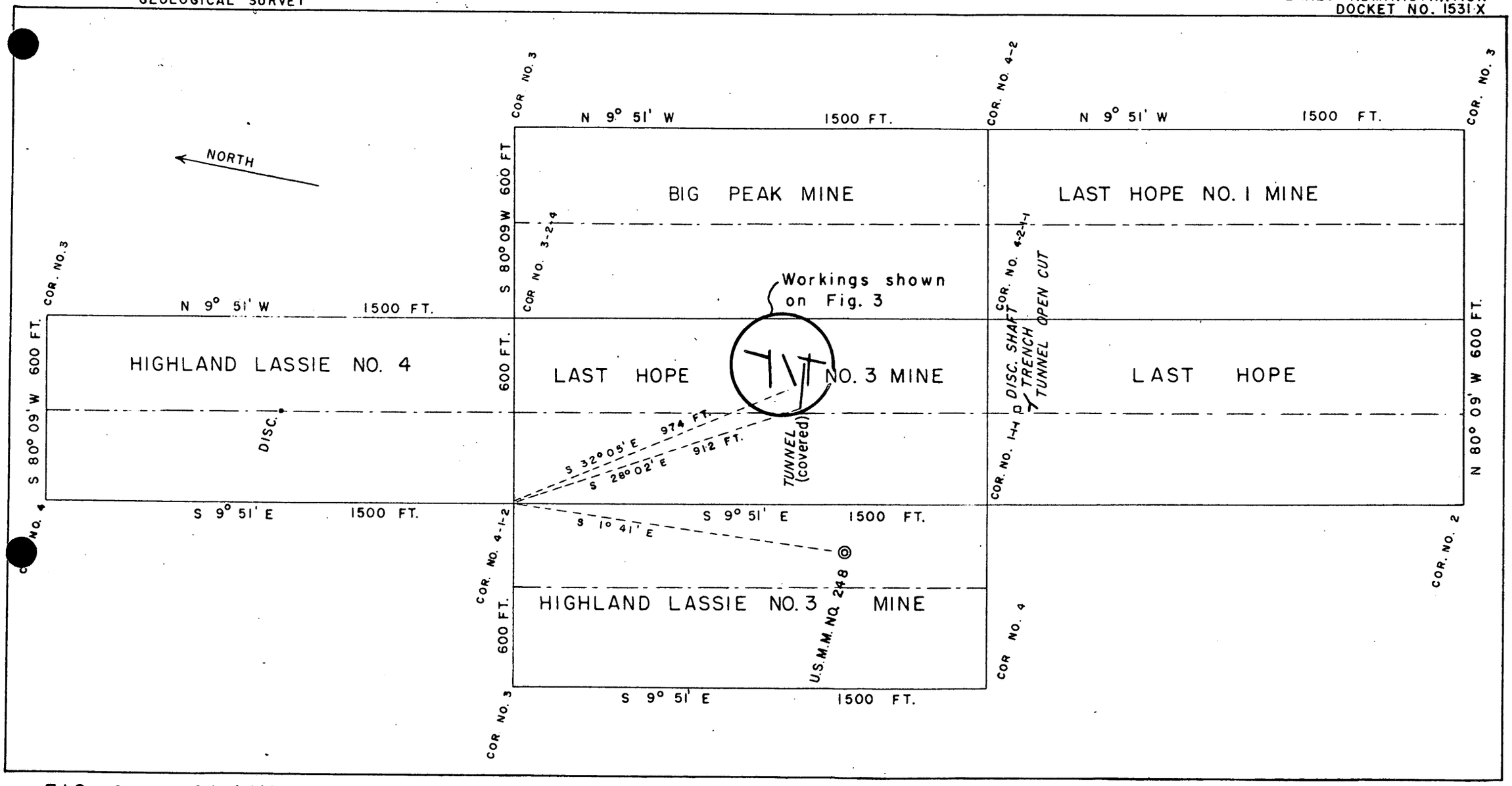
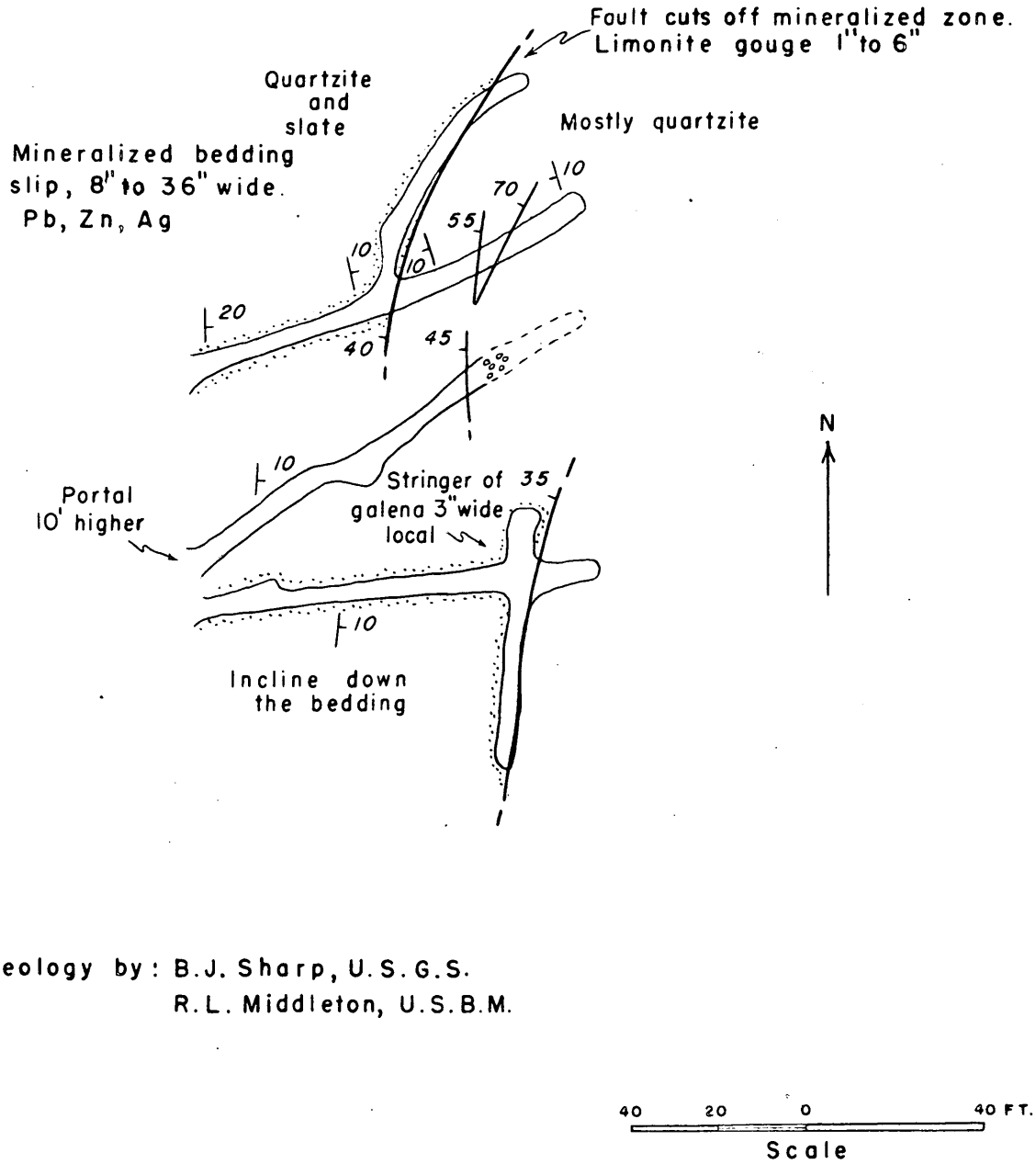


FIG. 2 CLAIM MAP OF HIGHLAND LASSIE AND LAST HOPE LEAD-ZINC PROSPECT, ERICKSON MINING DISTRICT, TOOELE COUNTY, UTAH

0 500 1000 FEET
Scale



Geology by: B.J. Sharp, U.S.G.S.
R.L. Middleton, U.S.B.M.

FIG. 3 DETAILED MAP OF THE HIGHLAND LASSIE OR LAST HOPE LEAD-ZINC PROSPECT, ERICKSON MINING DISTRICT, TOOELE COUNTY, UTAH

HIGHLAND LASSIE MINE
TOOELE COUNTY, UTAH
LEAD-ZINC
DMA-1531X

Engineering Report

By R. L. Middleton
Mining Engineer
U. S. Bureau of Mines

HIGHLAND LASSIE MINE
TOOELE COUNTY, UTAH

CONTENTS

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Ownership and extent	2
Description of the deposit	2
Minable ore reserves	2
Present status	2
Project proposal	3
Conclusions and recommendations	3

ILLUSTRATIONS

Fig. 1 Location map, Highland Lassie mine, Tooele County, Utah

INTRODUCTION

A preliminary examination of the Highland Lassie mine was made September 12, 1951, by Byron Sharp of the U. S. Geological Survey and R. L. Middleton of the U. S. Bureau of Mines. The field team was accompanied to the property by L. E. Kramer, managing partner. The examination was made regarding DMA Docket 1531X which asks approval of a $10,000 exploratory project loan with Government participation of $5,000.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Highland Lassie property is in sec. 33, T. 10 S., R. 8 W., S.L.B.M., Erickson mining district, Tooele County, Utah, 70 miles southwest of Tooele. The property, at an elevation of 8,200 feet, lies on the west slope of the Simpson Mountains above and east of Sixmile Spring. The Simpson Mountains rise abruptly from the alluvial valley and beach terrace remnants of Lake Bonneville. Topography is very steep, and many of the mountain slopes are covered with loose talus. A few stunted juniper trees supply a limited quantity of small mine timbers. Sixmile Spring, adjacent to the property, affords an adequate culinary water supply.

HISTORY AND PRODUCTION

The Highland Lassie property was located and patented in the early 1900's. There is no record of ore production previous to 1935. During 1935 and 1936 lessees mined approximately 25 tons of good-grade, argentiferous galena ore. In 1946 L. E. Kramer purchased the Highland Lassie claims from Tooele County and obtained a tax title. During the next year the mine produced approximately 12-1/2 tons of ore, the average

metal content of which was 15.5 percent lead, 2.89 ounces silver, and 12.1 percent zinc.

OWNERSHIP AND EXTENT

The Highland Lassie property consists of 6 patented lode mining claims and is owned by a partnership with L. E. Kramer as managing partner.

DESCRIPTION OF THE DEPOSIT

Rocks in the immediate area of the Highland Lassie mine are Cambrian quartzite and interbedded shales. The mineralization occurs as a lenticular, bedded fissure with a north strike and 20° east dip between a quartzite footwall and chloritic shale hanging wall. The vein material, which varies from 2" to 36" in thickness, is broken and oxidized to a soft brownish-black earthy material. Clay gangue within the vein indicates post-mineral faulting along the bedding plane, and the faulting has shattered the vein sufficiently to allow complete oxidation. The vein is composed of quartz, iron oxide, manganese oxide, pyrite, chalcopyrite, and galena. A sample chipped 36" across the widest portion of the vein assayed 15.3 percent lead, 19.2 percent zinc, and 2.0 ounces of silver per ton.

MINABLE ORE RESERVES

A few tons of highly oxidized lead, zinc, and silver-bearing ore constitute the minable ore reserves in the Highland Lassie mine.

PRESENT STATUS

The Highland Lassie mine is developed by three short inclined adits (fig. 2., U. S. Geological Survey report). These adits, driven east from the mineralized outcrop down the 20° dip of the bedded fissure,

encountered a normal post-mineral fault. Continuation of the fissure east of the fault has not been found. Approximately 37 tons of lead-zinc ores has been mined along the intersection of the bedded fissure and the fault. Since 1947, no mining has been done on the property.

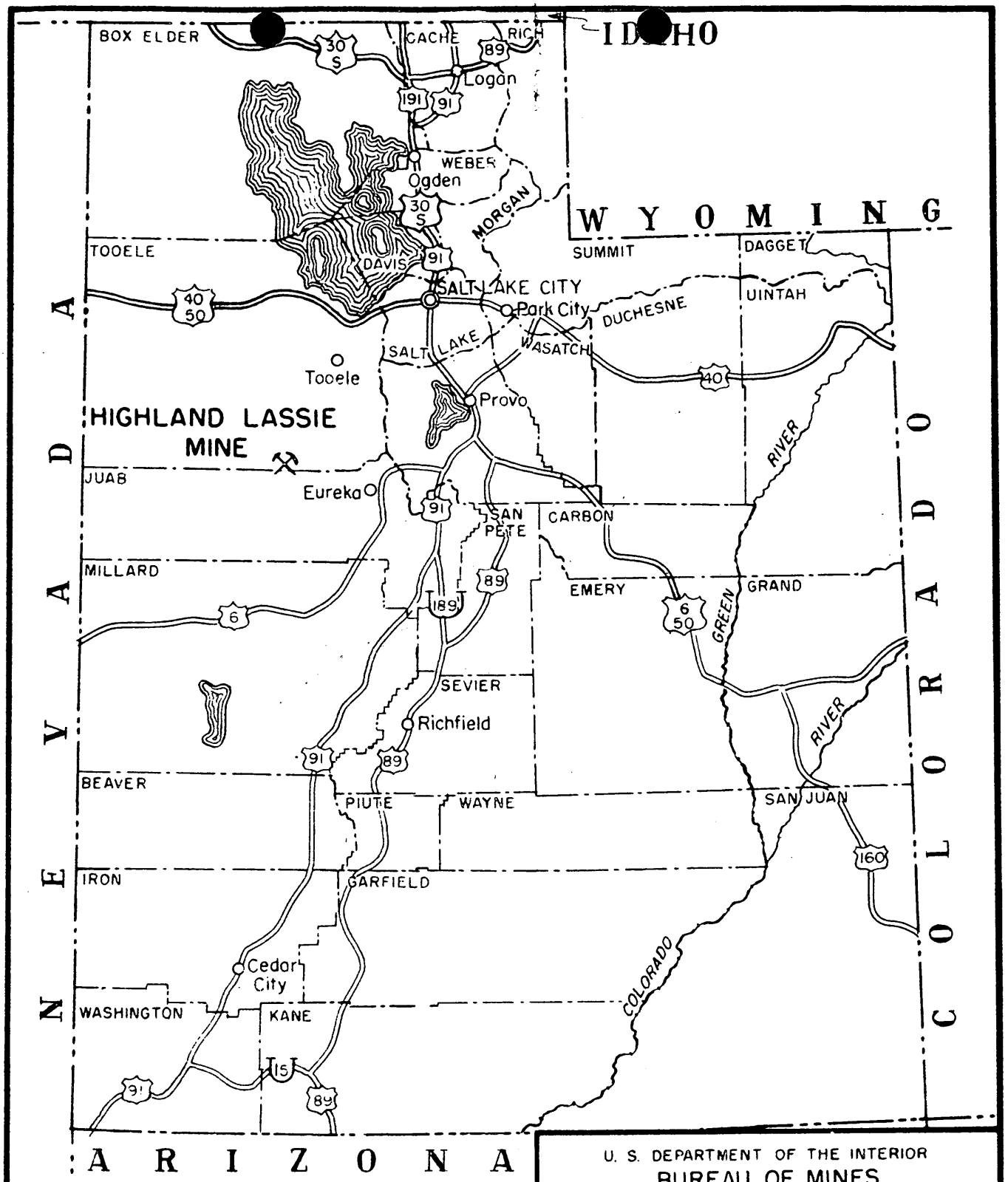
There are no mining, milling, or other facilities which could be used for the proposed exploratory project.

PROJECT PROPOSAL

Mr. Kramer, operating manager, states the Highland Lassie mine partnership is prepared to invest the equivalent of approximately $5,000 in labor and equipment with a 50 percent Government participation DMA loan. He proposes an adit site be located several hundred feet below the mine workings and a crosscut driven to intersect the downward extension of the bedded fissure.

CONCLUSIONS AND RECOMMENDATIONS

Ore deposits of the south Simpson Mountain area are small, irregular, and discontinuous. The quartzite host rock is not favorable to the formation of a persistent fissure system, nor is it susceptible to large-scale replacement by mineralizing solutions. Due to these adverse conditions, it is difficult to develop minable ore reserves. The low-angle dip of the Highland Lassie bedded fissure is not favorable to crosscut development at a lower horizon. It is improbable that the location of the downward extension of the fissure could be projected closely because of the faulting. Therefore, it is recommended that the loan application be denied.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 Proj. No.

Location Map

HIGHLAND LASSIE MINE

TOOELE COUNTY, UTAH.

ENGINEER: R. L. MIDDLETON	DATE: SEPT. 17, 1951
TRACED: SEPT., 1951; A.P.T.S.	1500-1074-E
CHECKED:	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICE OF
REGIONAL DIRECTOR

REGION IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 2, 1951

Memorandum

To: S. R. Wilson

(Through Chief, Mining Division)

Ralph Roberts (with brochure)

From: DMA Field Team, Region IV

Subject: DMA Docket 1531X, L. E. Kramer and Sons, Highland Lassie or Lost Hope, Lead-Zinc Prospect, Erickson Mining District, Tooele County, Utah

Enclosed is the subject brochure with application for an exploration project at an estimated cost of $10,000.

The data submitted by the applicant was too meagre for a review by the Commodity Branch in Washington. The enclosed letter from the Coordinating Committee requests advice which will probably entail a geological examination.

Paul T. Allsman
P. T. Allsman, Alternate

A. H. Koschmann
A. H. Koschmann

Enclosure

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

OFFICE
REGION IV
1951

July 23, 1951

Re: DMA 1531X
L.E. Kramer and Sons
Prospect in Erickson
Mining District
Tooele County, Utah
Lead, Zinc
Exploration loan

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

Dear Mr. East:

Subject docket is referred to field for advice. Original application was too meager, and additional information supplied in letter of July 2 doesn't add very much. This additional information suggests, however, that proposed exploration tunnel is planned on no better geologic evidence than lining it up with a mine on the opposite side of the mountain. The claim, Lost Hope No. 3, from which production was made in 1948 is described on p. 456 of U.S.G.S. Professional Paper 111, Ore Deposits of Utah, and the general outlook for the camp is discussed on the succeeding page. These discussions, and general geologic description of district on earlier pages, show that the structures and other geologic features controlling ore deposition in the district are small and localized, hence, the proposed plan to start a new tunnel down the hill, 1000 feet northwest of the productive tunnels, would appear to have little merit unless applicant has valid evidence not submitted in his application.

It will be left to the field team to ascertain what bearing the discussion of conditions at Ophir, as presented in letter of July 2, has on this application. There was nothing in the inquiry sent to the applicant that explains this reply.

Very truly yours,

for Tom Lyon
Chairman
Coordinating Committee

Lowell B. Moon
for Bureau of Mines

for Geological Survey

FILE COPY
SURNAME:

McKnight
Billings
O'Leary
(Freemote)

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

July 23, 1951

JUL 27 1951

Re: DMA 1531X
L.E. Kramer and Sons
Prospect in Erickson
Mining District
Tooele County, Utah
Lead, Zinc
Exploration loan

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

Dear Mr. East:

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Very truly yours,

Jim Lyon

Chairman
Coordinating Committee

for Bureau of Mines

Olaf N. Rove

for Geological Survey

ETMcKnight:emp G 7-23-51
Copies to: Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

FILE COPY
SURNAME:

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

W. Knight
Billingsley
O'LEARY
(R.H. Mote)
Tom
Moon

July 23, 1951

Re: DMA-1531X

L. E. Kramer and Sons
Box 456
Tooele, Utah

Gentlemen:

Your application (Docket DMA-1531X) for an exploration loan under the provisions of the Defense Production Act of 1950 has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration. Before final decision can be taken on your request it will be necessary to obtain additional information on your property. Your application, therefore, has been referred to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado, with the request that the needed information be supplied to us.

Very truly yours,

Tom Lyon, Director
Supply Division

ETMcKnight:emp
G 7-23-51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
Directors r. files 4214 GSA
R. H. Mote
Reports & Records
Br. r. file 4214 GSA
Files

Mr. Herres
Rem. 3618

L. E. KRAMER
Former County Attorney

TOOELE COUNTY
STATE OF UTAH

Tooele, Utah, July 2, 1951

Re: DMA-1531X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 5 - 1951
LANDON F. STROBEL
Executive Secretary

Mr. Otto Herres
Chief Lead-Zinc Branch
Defense Minerals Administration
Washington 25, D. C.

Dear Sir:

In response to your letter of June 21 on above matter, beg to enclose herewith further data on the above mentioned project.

In determining on the place for the proposed exploration project I was reflecting on exploration projects experienced in Ophir Canyon. About 1925 Senator W.A.Clark of Montana of the Ophir Hill mine in Ophir had a shaft sunk about 1400 feet in the bottom of the canyonwith Lion Hill on the south, but never encountered any ore. Never heard of the cost. A few years ago the International Smelting & Refining Co. of Tooele at about the same place as Clark using practically the same portal as the Ophir Hill, ran a tunnel south under Lion Hill for a distance reported about 4000 feet along with some drifts and upraises, but encountered little or no ore.The cost was reported about $450,000.00. Work was discontinued about two years ago.

I have been trying to figure out if I have given all the information that you desire in this matter.

Thanking you for your consideration in this matter, I beg to remain

Yours very truly

L. E. Kramer

L. E. Kramer, Box 456, Tooele, Utah

SUPPLEMENT TO

APPLICATION FOR AID FOR EXPLORATION PROJECT

DEFENSE MINERALS ADMINISTRATION

Re: DMA-1531X

5-6. Applicant is owner of record of mining property under consideration with no liens, claims or encumbrances against said property. (Co. Tax Notice was enclosed as exhibit)

8. Have no current financial statement to furnish as there has been no mining activity since 1948, except payment of taxes. For 1948 settlement sheets of International Smelter at Tooele, Utah, give value of ore shipped that year at $2925.70. For liabilities same year applicant attaches Deductions furnished Utah State Tax Commission for supplies, etc. for 1948. Balance was divided among those of the partnership and one or two others.

10. (a) The property involved in this project consists of group of patented mining claims call the Highland Lassie group (Survey No.6270, except Hi land Lassie No.3 Mine, No.6272); a sketch of the group taken from survey in Surveyor General's office in Salt Lake City, was included as an exhibit which shows where the work on the ground done at the time the claims were patented in 1913, with patent issued January, 1914. On sketch is shown two tunnels on Last Hope No.3 Mine, and the Last Hope claim the is discovery shaft, tunnel and open cut; these last have since been covered with slide rock as none can be seen now. There are two other small inclines one about 40 ft.; the other about 20; below and to the north, below and to the north of the two tunnels mentioned. In 1948 in mining the ore mentioned above about 200 feet of tunnelling, drifting, raising and stoping was done to get the ore shipped to the smelter. Big Peak Mine and Last Hope No.1 Mine run along the top of the Simpson Range, with the other claims along the western slope of the Simpson Mountains. (b) The exploration will be done on the Hiland Lassie No. 3 Mine claim with the portal a little north and about 1000 feet west of the tunnels on the Last Hope No.3 Mine, reaching about 2/3 down the mountain side. This tunnel is constructed would be about in line with the Bar X mine, operated by Fino Tedesco of Salt Lake City, and now shipping a car or ~~two~~ a week to the smelter from their mine on the east side of the Simpson range in what is called Death canyon.
The time estimated to run the tunnel contemplated would be a year to 18 months.

15. The ore taken from the mine can be trucked direct to the International smelter at Tooele, Utah, a distance of about 70 miles; or it can be hauled to Delta, Utah, a railroad shipping point, about 45 miles, directly south of the mine; or Jericho, Utah, another shipping point, about 40 miles easterly from the mine.

21. It is proposed to run a tunnel on the west side of the mountain below the ground from which the ore was mined and shipped in 1948; the length of the tunnel may be as much as 750 feet orm more. The time to run same may take a year or year and a half.

23. Applicant does not contemplate any elaborate setup; just the same as starting work on a new prospect. The same equipment used for operations in 1948 will be used after preliminary work of getting under ground is performed. In addition to above equipment we have at the place an International tractor with Bucyrus-Erie dozer, 6x6 heavy duty truck; weapons carrier with winch, and other motor vehicles.

24. Pending time for DMA to pass on the application, applicant will take preliminary steps to be in a position for further information as to the future steps in the matter.

L. E. KRAMER & SONS, Box 456, Tooele, Utah

SUPPLEMENT TO

APPLICATION FOR AID FOR EXPLORATION PROJECT

DEFENSE MINERALS ADMINISTRATION

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L. E. KRAMER & SONS, Box 456, Tooele, Utah

[illegible]

[illegible]

[illegible]

SUPPLEMENT TO

APPLICATION FOR AID FOR EXPLORATION PROJECT

DEFENSE MINERALS ADMINISTRATION

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L. H. KRAMER & SONS, Box 456, Tooele, Utah

"EXHIBIT" #8

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

DEDUCTIONS

OF

L. E. KRAMER & SONS --PARTNERSHIP

Mining venture of Charles C. Kramer, Lorin E. Kramer, Jr. and Jackson Jones on the Highland Lassie Group of Mining Claims, property of L.E.Kramer in Erickson Mining District, Tooele County, Utah. (Supplemental to Partnership Return of Income)

Names, Address and Material, etc. furnished:

ED. L. Gillespie, Tooele, Utah		Gas, Oil and Fuels etc.	$327.05
Tooele Valley Fuel Co.	do	Gas, Oil, Lubrication, etc.	128.93
C. F. Strieby Co.	do	Welding, Repairs, etc.	53.00
Tooele Supply Co.	do	Auto Parts, etc.	62.92
Barrus Motor Co.	do	Engine Motor, etc.	158.66
Allen Cochrane	do	Auto Parts & Labor	10.85
D. &. S. Machine Shop	do	Welding & Machine Work	158.00
McFarlane & Hullinger	do	Mine Supplies	25.76
Tooele Ordnance Depot	do	Lumber	56.00
Mission Service(Texas Co)	do	Gas, Oil etc	19.93
National Tunnel & Mines Co.	do	Mine Supplies	4.62
The Lang Co. Salt Lake City		Auto Parts & Labor	138.44
Hafers Auto &Truck Parts	do	Auto Parts	19.31
Mickey Robes, Eureka, Utah		Rails	67.00
Utak Bit & Steel Service,Midvale,Utah		Drilling supplies	13.70
George W. Bryan, Stockton, Utah		Gas, Oil	[illegible].50
			$ 1261.67

Ore produced from said Mining Claims January to August, 1948, the sum of $2925.70 was realized from the sale to International Smelting & Refining Co. at Tooele, Utah.

Ded'ts $ 2925.70
Surplus etc 1261.67
Above etc 1664.03

(Appended to Partnership Return of Income of L.E.Kramer & Sons)

L. E. KRAMER & SONS, Box 456, Tooele

FILE COPY
SURNAME:

McKnight
Herres

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

June 21, 1951

Re: DMA-1531X

L. E. Kramer and Sons
Box 456
Tooele, Utah

Gentlemen:

Your application, for an exploration loan on your mining property in the Erickson Mining District, has been reviewed by the Lead-Zinc Branch of the Defense Minerals Administration.

Before a contract can be written, it will be necessary for us to have answers to many of the questions listed on Form MF-103 that were omitted in your application. These questions are checked in the attached copy of the form. The answers can be given on sheets of paper that can be attached to the application that we already have. They should be submitted in quadruplicate.

It is particularly important that the answers to questions 21 and 23 be given in sufficient detail so that a specific amount of work can be described in the contract to be drawn up and specific items of expense can be listed in the contract. This is the only way in which we can get information to be enclosed as Exhibits A, B, C, D, and E, of the exploration project contract, a copy of which is enclosed for your reference.

Very truly yours,
Otto Herres

Otto Herres, Chief
Lead-Zinc Branch

ETMcKnight:emp
G G 6/21/51
Copies to: J. H. East, Jr.
Region IV (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

Enclosures

FILE COPY
SURNAME:

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

June 18, 1951

Mr. L. E. Kramer
L. E. Kramer & Sons
Box 456
Tooele, Utah

Subject: DMA-1531X
Re: Exploration loan
Highland Lassie Mine

My dear Mr. Kramer:

Receipt is acknowledged of your application and attachments of May 26, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1531X and was referred to Mr. Otto Herres, Chief, Lead-Zinc Branch on June 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1531X.

Sincerely yours,

LANDON F. STROBEL
(JEB)
Landon F. Strobel
Executive Secretary

LFSTROBEL:Jeb
cc: Strobel-2
Files
Herres
Lyon

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

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

JUN 29 8 00 AM '51

DO NOT FILL IN THIS BLOCK

Docket No. Dma-1531 X

Date received 6/4/51

Participation

L. E. KRAMER & SONS
Box 456
Tooele, Utah

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost Up to $10,000.00

Mineral or metal Lead & Zinc

Percentage of Government participation 50%

Location of mine Erickson Mng. Dist. Sec. 33
T. 10 S., R. 8 W. SLM, Tooele, Co., Utah

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

JUN 7 1951

THE PROPERTY

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

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

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

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

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

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

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

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

*16. History:

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

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

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

*17. Production:

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

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

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

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

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

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

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

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

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

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

CERTIFICATION

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

By L. G. Kramer

(Name of company) (Signature of authorized official)

(Date) (Title)

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

*Same as footnote on page 1.

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

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-1531 X

Date received 6/4/51

Participation

L. E. FRAZIER & SONS
Box 456
Tooele, Utah

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost Up to $10,000.00

Mineral or metal Lead & Zinc

Percentage of Government participation 50%

Location of mine Erickson Mng. Dist. Sec. 33
T.10 S., R.8 W. SLM, Tooele Co., Utah

Date of filing MF-100

DMA Docket Number, if available

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

(Name of company)	By J. E. Kramer (Signature of authorized official)
May 18 1951 (Date)	(Title)

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

*Same as footnote on page 1.

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

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-1531 X

Date received 6/4/51

Participation

L. E. KRAMER & SONS
Box 456
Tooele, Utah

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost Up to $10,000.00

Mineral or metal Lead & Zinc

Percentage of Government participation 50%

Location of mine Erickson Mng. Dist. Sec. 33
T. 10 S., R. 8 W. SLM, Tooele, Co., Utah

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

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

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

*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.

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*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.

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

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
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(*b*) Supervisors, by numbers and positions, with salaries of each.

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

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

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

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

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

CERTIFICATION

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

(Name of company)

By ---
(Signature of authorized official)

(Date)

(Title)

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*Same as footnote on page 1.

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

TC-250-D 00 1-48

MINES

19 50 NOTICE OF TAXES ON THE PROPERTY OF

Name L. F. Frazer Address 136 East 1st North, Tooele, Utah Sheet No.

Taxing District County Outside, County Tooele

Line No.	REAL ESTATE DESCRIPTION	Sec. or Lot	Twp. or Blk.	Rge. or Plat	Acres	Value of Mine and Mining Claims (Dollars)	Value of Coal (Dollars)	Value of Surface Rights (Dollars)	MACHINERY, SUPPLIES AND IMPROVEMENTS DESCRIPTION	Value of Machinery & Supplies (Dollars)	Value of Improvements (Dollars)
1	Value of mine based on two times net proceeds	XX	XX	XX	XXXX	145	XXXXX	XXXXX	Improvised Air Compressor,		
2	ERICKSON MINING DISTRICT -								(Auto Motor) with Auto		
3	LAST HOPE, LAST HOPE NO. 1 MINE								Motor Power Unit, Jackhammer		
4	LAST HOPE NO. 3 MINE, BIG PEAK MINE, HIGHLAND LASSIE NO. 4, SURVEY NO.								and Accessories	400	
5	6270, 103.305 ACRES.				103.305	517			Frame Shanty (cabin)		20
6	ERICKSON MINING DISTRICT -										
7	HIGHLAND LASSIE NO. 3 MINE, SURVEY NO. 6272, 20.661 ACRES.				20.661	103					
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25	TOTALS (Carried to Total Value column)					765				400	20
26	TOTAL VALUE										1,185

TAX NOTICE, 1950

Outside

Treasurer's Office, Tooele County, Utah
County Court House, Tooele, Utah, Sept. 18, 1950

As required by law, notice is hereby given that your State, State School, State High School, County, District School, City and Special Taxes for the year 1950 in Tooele County, Utah, upon the property hereinafter described, are as follows, and are due and payable at my office in the County Court House, Tooele, Utah.

THIS NOTICE MUST BE PRESENTED WHEN PAYMENT IS MADE

L. E. Kramer
186 West 1st No
Tooele Utah

DESCRIPTION

Description attached

THIS IS THE LAST NOTICE REQUIRED BY LAW

Information in regard to classification of property will be given on request.

Taxes Become Delinquent November 30, 1950 at 12 o'clock noon.

All Delinquent Taxes Subject to a Penalty of Two Per Cent of Amount of said Taxes plus 25c cost.

Tax Sales will be made on all property not paid before January 10, 1951, as provided by law. PRESENT THIS NOTICE WHEN PAYMENT IS MADE, AS IT WILL BE YOUR RECEIPT WHEN SIGNED. For rates of levy see back of this notice.

PHARES HAYNES,
County Treasurer.

ASSESSED VALUATION	
Real Estate	$
Bldgs. or Improvements	
Personal	
	1185
Total Valuation	$ 1185

PHARES HAYNES, Treasurer
PAID
NOV 21 1950
Tooele County, Utah

BOOK 1

Page 188

Line

Receipt No. 2709

For rates of levy see back of notice

AMOUNT OF TAX		
General Tax	$	
State Bounty Tax		
T. B. & Bangs Disease Tax		
Livestock Inspection Tax		
Predatory Animal Control Taxes		
Total Tax		
Abatements		
Credits		
Total Tax Due		
Advertising		
2 Per Cent Penalty		
Total Taxes and Cost		

Postage Stamps Not Accepted, and Checks Accepted on Collection Basis Only and Must Not Exceed Amount of Tax

[illegible] SMELTING CO.

1/12/42

L. E. Kramer
Box 456
Tooele, Utah

South Stipson Mountain,
Tooele County, Utah

[illegible]	1/5	[illegible]			Crude		1		44[illegible]
.3	15.5	12.1	2.89	.01	18.5	15.0	.5	1.1	45 .5

-1.5
14.0

[illegible] METAL QUOTATIONS

[illegible]

[illegible]	12/31	15 000	Chg lead under 30% @ .10	[illegible]
[illegible]	12/31	10 500		1 600
	1/5	90 000		

VALUES PER TON

				6 154
			.10	1 850
90%	.13171	33 193		
75%	.02310	4 193	.25	1 815
.5 oz.	.90000	2 151		9 829
			.06	900
		39 535		
		8 929		
		30 606		8 929
	12.686		30.606	388.27

Truck

28160

9.9

25372

48794

388 27

INTERNATIONAL SMELTING AND [illegible]
[illegible] PLANT

[illegible]ght of [illegible]
Box 156
[illegible], Utah

Sampled 3/9 By

Lot No.	COPPER PER CENT	LEAD PER CENT	ZINC PER CENT	SILVER OZ. PER TON	Class	Mine Lot	Smelter Lot
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible] 5
[illegible]ENT [illegible] 7

F. & M. J. METAL QUOTATIONS

(Average for Week Ending)		
(Average for Week Ending)	3/2	23 [illegible]
(Average for Week Ending)	3/9	90 [illegible]

VALUES PER TON

[illegible]	@		
90%	@ .233445	34 [illegible]	
[illegible]	@		
[illegible] 02.	@ .91000	[illegible] 926	
	@		
[illegible] Payment		35 796	
[illegible]		[illegible]	
[illegible] Per Ton		28 [illegible]	

Smelting [illegible] @ [illegible]
Smelting [illegible] @
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible]
Net [illegible]

CAR NUMBER	WEIGHT
[illegible]	
[illegible] Weight	55200
[illegible] of Sacks	
Weight	
[illegible] 9.37	
	50460

25.236 Dry Tons @ [illegible] Per Ton [illegible]

Freight @

Shipped By
Mine Lot
Smelter Lot

Smelter No. [illegible]

[illegible] charge made for sampling all [illegible]
[illegible] on contracts for specified [illegible]
[illegible] subject to change without notice.

INTERNATIONAL SMELTING AND REFINING COMPANY
TOOELE PLANT

Salt Lake City, Utah 5/2/43

Mail of L. E. Kramer
Box 456
Tooele, Utah

South Simpson Mountain
Shipped from Tooele County, Utah

Sampled 4/26 By Class Crude Mine Lot 3 Smelter Lot 4206

Copper Per Cent	Lead Per Cent	Zinc Per Cent	Silver Oz. Per Ton	Gold Oz. Per Ton	Iron Per Cent	Silica Per Cent	Lime Per Cent	Manganese Per Cent	Moisture Per Cent	Dry Weight
.1	14.6	9.1	2.09	.01	21.7	14.8	.6	nil		

-1.5
13.1

M. & M. METAL QUOTATIONS			
(Average for Week Ending)			
(Average for Week Ending)	4/21	17	500
(Average for Week Ending)	4/26	90	000

VALUES PER TON			
30%	@ .156445	36	890
= .5 oz.	@ .90000	1	431
Metal Payment		38	321
Treatment		8	311
Value Per Ton		30	010

TREATMENT

Base		
Chg Lead under 30% @ .10		4 564
		1 690
Insoluble	% @ .10	6 254
Sulphur	% @	2 170
Zinc 3.1	% @ .05	773
Iron	% @ .06	1 199
Lime	% @	288
Manganese	% @	
Net Treatment		8 311

Car Number	Weight
Truck	
	77480
	5.98
	72111

PAYMENT

36.0555 Dry Tons @ 30.010 Per Ton 1082 03

Freight @ Per Ton (F. O. B. Value)

Shipped By
Mine Lot
Smelter Lot

Voucher No. 43568 Net Proceeds 1082 03

No charge made for sampling all lots from shipments sampled by us. Assays for contents, for unsolved lots or specified from lots to be taken without charge.

No [illegible] statement or payment [illegible] Company [illegible] or waiver of any claim or demand [illegible] Company [illegible] demand or claim [illegible]

NATIONAL SMELTING AND REFINING COMPANY

8/5/48

L. E. Kramer
Box 456
Tooele, Utah

South Simpson Lt.
Tooele County, Utah

7/29 Crude 4 5189

.1	13.5	10.1	2.0	.005	26.6	14.0	.3	.2

-1.5
12.0

TOTAL COMMERCIAL WEIGHT

	7/28	17 000	Cag load under 30% @ .10	5 140
	7/28	12 500		
	7/29	90 000		

				6 940
			.10	2 660
90%	.159465	34 444		
75%	.02750	4 166	.15	1 515
-.5 Oz.	.90000	1 350		11 115
			.06	840
		39 960		
		10 275		
		29 685		10 275

PAYMENT

24.5495 29.685 728 75

Truck

51300

4.29

49099

Shipped by
Mine L.
Smelter L.

49035 728 75

for sampling and

WS

816 S 12th E.

141 W 1NO - North

Bailey, Clarence
Community Affairs

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma - 1501X

Date received 6/4/51

L. E. KRAMER & SONS
Box 456
Tooele, Utah

Name and address of applicant

Date May 26, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

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

CERTIFICATION

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

By L. E. Kramer

(Name of company) (Signature of authorized official)

(Date) (Title)

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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-1531X

Date received 6/4/51

[illegible]
Box 456
Agana, Guam

Name and address of applicant

Date May 26, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

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

CERTIFICATION

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

By L. E. Kramer

(Name of company) (Signature of authorized official)

(Date) (Title)

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

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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma - 1531 X

Date received 6/4/51

L. E. KRAMER & SONS
Box 456
Tooele, Utah

Name and address of applicant

Date May 26, 1951

INSTRUCTIONS

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

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				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
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(*c*) If placer:

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

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

CERTIFICATION

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

By L. E. Kumer

(Name of company) (Signature of authorized official)

(Date) (Title)

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

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

GENERAL TECHNICAL DATA

1. Materials produced:
(a) Lead and Zinc. (b) None

2. Name of Mine etc.:
The name of the mine at present is Highland Lassie, although probably called Last Hope after claim on which most of work was done by original locators. The extent of the workings as exist at present consist of three tunnels on the Last Hope No. 3 Mine; South tunnel about 70ft. with cross cut of 100 ft.; Middle tunnel about 85 ft.; North tunnel about 75 ft. with crosscut drift and upraise about 50 ft.(Sketch of attached)

3. Highland Lassie Group:
(a) The property is located on south end of Simpson Mountains; about 50 miles north of Delta, Utah, and about 40 miles west of Vernon, Utah there is a shipping point at Delta, also at Jericho, Utah, about 40 miles easterly from mine. (b) Property is located in Erickson Mining District. (c) Section 33 (if surveyed) in Township 10 South, Range 8 West; Salt Lake Meridian. (d) Tooele County, State of Utah.

4. Property not in operation now; was in operation in 1947-48 for nearly a year when shipments of lead-zinc ore was made to International Smelting & Refining Co. at Tooele, Utah; the ore was hauled by truck from the mine direct to the smelter. (Settlementx sheets of shipments are enclosed herewith as exhibits to indicate kind of ore on property)
(b) Settlement sheets show only production to any extent known. Operations conducted under name of L.E.Kramer, Box 456, Tooele, Utah, but later changed to partnership consisting of L.E.Kramer, Chas. C. Kramer Lorin E. Kramer, Jr., and George A. Kramer under firm name of L.E. Kramer & Sons, P.O.Box 456, Tooele, Utah. (Above includes Item 5)

6. Experience of Operators:
(a) Applicant spent teen age years in athracite coal region in Pennsylvania; later 1906 to 1910 in Mercur Mining District, prospecting one year; then cyanide mill operator two years; mined lead-silver ore in Ophir canyon winter 1909-10; during summer of 1910 operated lime kiln for Con.Mercur Mining Co. in Mercur; newspaper editor and publisher in Tooele, Utah, for nearly fifteen years; mined manganese in Erickson Mining District 1930-31, shipping ore to Columbia Steel Co. at Provo; also mining in Mercur 193539. Served as county attorney of Tooele County for seven years and judge of Tooele City Court for nearly six years.
(b) Associated with applicant is Jackson Jones of Salt Lake City, miner and prospector in Utah for more than forty years, having worked in mines in nearly camp in Utah, including Park City, Alta, Bingham, Mercur,Eureka, Dugway and Erickson Mining Districts, as well as mines in Nevada and Idaho. He was mine foreman at Imperial Lead Mng.Co. mine in Death Canyon, Erickson Mining Dist, which was shipping ore 1917 to 1922, during his stay there. The Imperial Lead is just southeast of the Highland Lassie group almost joining it on the east side of the mountain.

7. History:
(a) The mining property described herein and now called the Highland Lassie group, was also known as the Last Hope and Holt property from name of patentee of property. The ground was located a few years after the turn of the century with Swen Nelson, an old prospector, being the discoveror and one of the locators along with Robert M. Holt, patentee, of the claims now included in the group; the names of the six claims being; Big Peak Mine, Last Hope No.1 Mine, Highland Lassie No.4, Last Hope No. 3 Mine, Last Hope, all included in U.S.Survey No. 6270; Highland Lassie No. 3 Mine being Survey No.6272. The group was surveyed for patent August 13-17, 1913, and patent issued January 24, 1914, according to record of group in U.S.Surveyors Office in Salt Lake City, Utah. The discovery work consisted consisted of two tunnels on the Last Hope No. 3 Mine; also discovery shaft, tunnel and open cut on Last Hope claim about half claim length south from two tunnels which are located about the middle of the six claim group. Mr. Holt paid taxes on property for nearly twenty years, but little work appears to have be done. No buildings were on the property for the past twenty-five years. Very little ore was shipped from property as far as known.

L. E. Kramer & Sons, Box 456, Tooele, Utah

7. History:
(b) As previously mentioned the Imperial Lead mine was operated for about ten years, ceasing operations in the fall of 1926. During the next couple years there was some activity in Death Canyon which lies on the east side of south end of Simpson Range, several shipments being made. During the past year the Bar X mine has opened up a body of lead-zinc ore and has been shipping about six to ten cars a month since the first of the year. Work is also being done on the Happy Jack property which lies east of Death Canyon, in Blaine Canyon.

8 to 12 passed. (Not applicable)

13. Access Roads:
The roads close to the mines are merely dirt with a grader having smoothed them off. When you get closer to the shipping points they may have been graded and gravelled by boys from CCC camps during the thirties.

14. Water Supply:
There are several springs located near the property which furnish ample water for culinary and mining purposes.

15. Power:
No power available except that unit for operating air compressor.

16. Labor:
Only labor employed is that connected with the operations.

17. Equipment and Facilities:
As stated on Tax Notice enclosed herewith states:
"Improvised Air Compressor, (Auto Motor) with Motor Power Unit, Jack Hammer and Accessories. Frame Shanty (cabin)

18. No comment to make on this number at present.

L. E. Kramer & Sons, Box 456, Tooele, Utah

GENERAL TECHNICAL DATA

1. Materials produced:
(a) Lead and Zinc. (b) None

2. Name of Mine etc.:
The name of the mine at present is Highland Lassie, although probably called Last Hope after claim on which most of work was done by original locators. The extent of the workings as exist at present consist of three tunnels on the Last Hope No. 3 Mine; South tunnel about 70ft. with cross cut of 100 ft.; Middle tunnel about 85 ft.; North tunnel about 75 ft. with crosscut drift and upraise about 50 ft.(Sketch of attached)

3. Highland Lassie Group:
(a) The property is located on south end of Simpson Mountains; about 50 miles north of Delta, Utah, and about 40 miles west of Vernon, Utah there is a shipping point at Delta, also at Jericho, Utah, about 40 miles easterly from mine. (b) Property is located in Erickson Mining District. (c) Section 33 (if surveyed) in Township 10 South, Range 8 West; Salt Lake Meridian. (d) Tooele County, State of Utah.

4. Property not in operation now; was in operation in 1947-48 for nearly a year when shipments of lead-zinc ore was made to International Smelting & Refining Co. at Tooele, Utah; the ore was hauled by truck from the mine direct to the smelter. (Settlements sheets of shipments are enclosed herewith as exhibits to indicate kind of ore on property)
(b) Settlement sheets show only production to any extent known. Operations conducted under name of L.E.Kramer, Box 456, Tooele, Utah, but later changed to partnership consisting of L.E.Kramer, Chas. C. Kramer Lorin E. Kramer, Jr., and George A. Kramer under firm name of L.E. Kramer & Sons, P.O.Box 456, Tooele, Utah. (Above includes Item 5)

6. Experience of Operators:
(a) Applicant spent teen age years in athracite coal region in Pennsylvania; later 1906 to 1910 in Mercur Mining District, prospecting one year; then cyanide mill operator two years; mined lead-silver ore in Ophir canyon winter 1909-10; during summer of 1910 operated lime kiln for Con.Mercur Mining Co. in Mercur; newspaper editor and publisher in Tooele, Utah, for nearly fifteen years; mined manganese in Erickson Mining District 1930-31, shipping ore to Columbia Steel Co. at Provo; also mining in Mercur 1933-39. Served as county attorney of Tooele County for seven years and judge of Tooele City Court for nearly six years.
(b) Associated with applicant is Jackson Jones of Salt Lake City, miner and prospector in Utah for more than forty years, having worked in mines in nearly camp in Utah, including Park City, Alta, Bingham, Mercur, Eureka, Dugway and Erickson Mining Districts, as well as mines in Nevada and Idaho. He was mine foreman at Imperial Lead Mng.Co. mine in Death Canyon, Erickson Mining Dist, which was shipping ore 1917 to 1922, during his stay there. The Imperial Lead is just southeast of the Highland Lassie group almost joining it on the east side of the mountain.

7. History:
(a) The mining property described herein and now called the Highland Lassie group, was also known as the Last Hope and Holt property from name of patentee of property. The ground was located a few years after the turn of the century with Swen Nelson, an old prospector, being the discoverer and one of the locators along with Robert M. Holt, patentee, of the claims now included in the group; the names of the six claims being; Big Peak Mine, Last Hope No.1 Mine, Highland Lassie No.2, Last Hope No. 3 Mine, Last Hope, all included in U.S.Survey No. 6270; Highland Lassie No. 3 Mine being Survey No.6272. The group was surveyed for patent August 13-17, 1913, and patent issued January 24, 1914, according to record of group in U.S.Surveyors Office in Salt Lake City, Utah. The discovery work consisted consisted of two tunnels on the Last Hope No. 3 Mine; also discovery shaft, tunnel and open cut on Last Hope claim about half claim length south from two tunnels which are located about the middle of the six claim group. Mr. Holt paid taxes on property for nearly twenty years, but little work appears to have be done. No buildings were on the property for the past twenty-five years. Very little ore was shipped from property as far as known.

[illegible]

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L. E. Kramer & Sons, Box 456, Tooele, Utah

GENERAL TECHNICAL DATA CONTINUED
Sheet 2

7. History:
(b) As previously mentioned the Imperial Lead mine was operated for about ten years, ceasing operations in the fall of 1926. During the next couple years there was some activity in Death Canyon which lies on the east side of south end of Simpson Range, several shipments being made. During the past year the Bar X mine has opened up a body of lead-zinc ore and has been shipping about six to ten cars a month since the first of the year. Work is also being done on the Happy Jack property which lies east of Death Canyon, in Blaine Canyon.

8 to 12 passed. (Not applicable)

13. Access Roads:
The roads close to the mines are merely dirt with a grader having smoothed them off. When you get closer to the shipping points they may have been graded and gravelled by boys from CCC camps during the thirties.

14. Water Supply:
There are several springs located near the property which furnish ample water for culinary and mining purposes.

15. Power:
No power available except that unit for operating air compressor.

16. Labor:
Only labor employed is that connected with the operations.

17. Equipment and Facilities:
As stated on Tax Notice enclosed herewith states:
"Improvised Air Compressor, (Auto Motor) with Motor Power Unit, Jack Hammer and Accesseries. Frame Shanty (cabin)

18. No comment to make on this number at present.

L. E. Kramer & Sons, Box 456, Tooele, Utah

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

~~LANDON F. SHROBER~~

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

Jno. Reeves 6/7/51

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-1531 X

Date received 6/4/51

Participation

L. E. KRAMER & SONS
Box 456
Tooele, Utah

Name and address of applicant

Date May 26, 1951

FILL IN THIS BLOCK

Date of application May 26, 1951

Estimated cost Up to $10,000.00

Mineral or metal Lead & Zinc

Percentage of Government participation 50%

Location of mine Erickson Mng. Dist. Sec. 33
T.10 S., R.8 W. SLM, Tooele, Co., Utah

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

THE EXPLORATION

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

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

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

(Name of company)	By L C Kramer (Signature of authorized official)
May 16 1961 (Date)	(Title)

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

*Same as footnote on page 1.

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

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

CERTIFICATION

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

By S E Kramer

(Name of company) (Signature of authorized official)

(Date) (Title)

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

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

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma-1531 X

Date received 6/4/51

Name and address of applicant

Date May 26, 1951

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

GENERAL TECHNICAL DATA

1. Materials produced:
(a) Lead and Zinc. (b) None

2. Name of Mine etc.:
The name of the mine at present is Highland Lassie, although probably called Last Hope after claim on which most of work was done by original locators. The extent of the workings as exist at present consist of three tunnels on the Last Hope No. 3 Mine; South tunnel about 70ft. with cross cut of 100 ft.; Middle tunnel about 85 ft.; North tunnel about 75 ft. with crosscut drift and upraise about 50 ft.(Sketch of attached)

3. Highland Lassie Group:
(a) The property is located on south end of Simpson Mountains; about 50 miles north of Delta, Utah, and about 40 miles west of Vernon, Utah there is a shipping point at Delta, also at Jericho, Utah, about 40 miles easterly from mine. (b) Property is located in Erickson Mining District. (c) Section 33 (if surveyed) in Township 10 South, Range 8 West; Salt Lake Meridian. (d) Tooele County, State of Utah.

4. Property not in operation now; was in operation in 1947-48 for nearly a year when shipments of lead-zinc ore was made to International Smelting & Refining Co. at Tooele, Utah; the ore was hauled by truck from the mine direct to the smelter. (Settlementm sheets of shipments are enclosed herewith as exhibits to indicate kind of ore on property)
(b) Settlement sheets show only production to any extent known. Operations conducted under name of L.E.Kramer, Box 456, Tooele, Utah, but later changed to partnership consisting of L.E.Kramer, Chas. C. Kramer Lorin E. Kramer, Jr., and George A. Kramer under firm name of L.E. Kramer & Sons, P.O.Box 456, Tooele, Utah. (Above includes Item 5)

6. Experience of Operators:
(a) Applicant spent teen age years in athracite coal region in Pennsylvania; later 1906 to 1910 in Mercur Mining District, prospecting one year; then cyanide mill operator two years; mined lead-silver ore in Ophir canyon winter 1909-10; during summer of 1910 operated lime kiln for Com.Mercur Mining Co. in Mercur; newspaper editor and publisher in Tooele, Utah, for nearly fifteen years; mined manganese in Erickson Mining District 1930-31, shipping ore to Columbia Steel Co. at Provo; also mining in Mercur 193539. Served as county attorney of Tooele County for seven years and judge of Tooele City Court for nearly six years.
(b) Associated with applicant is Jackson Jones of Salt Lake City, miner and prospector in Utah for more than forty years, having worked in mines in nearly camp in Utah, including Park City, Alta, Bingham, Mercur,Eureka, Dugway and Erickson Mining Districts, as well as mines in Nevada and Idaho. He was mine foreman at Imperial Lead Mng.Co. mine in Death Canyon, Erickson Mining Dist, which was shipping ore 1917 to 1922, during his stay there. The Imperial Lead is just southeast of the Highland Lassie group almost joining it on the east side of the mountain.

7. History:
(a) The mining property described herein and now called the Highland Lassie group, was also known as the Last Hope and Holt property from name of patentee of property. The ground was located a few years after the turn of the century with Swen Nelson, an old prospector, being the discoveror and one of the locators along with Robert M. Holt, patentee, of the claims now included in the group; the names of the six claims being; Big Peak Mine, Last Hope No.1 Mine, Highland Lassie No.4, Last Hope No. 3 Mine, Last Hope, all included in U.S.Survey No. 6270; Highland Lassie No. 3 Mine being Survey No.6272. The group was surveyed for patent August 13-17, 1913, and patent issued January 24, 1914, according to record of group in U.S.Surveyors Office in Salt Lake City, Utah. The discovery work consisted consisted of two tunnels on the Last Hope No. 3 Mine; also discovery shaft, tunnel and open cut on Last Hope claim about half claim length south from two tunnels which are located about the middle of the six claim group. Mr. Holt paid taxes on property for nearly twenty years, but little work appears to have be done. No buildings were on the property for the past twenty-five years. Very little ore was shipped from property as far as known.

GENERAL TECHNICAL DATA CONTINUED
Sheet 2

7. History:
(b) As previously mentioned the Imperial Lead mine was operated for about ten years, ceasing operations in the fall of 1926. During the next couple years there was some activity in Death Canyon which lies on the east side of south end of Simpson Range, several shipments being made. During the past year the Bar X mine has opened up a body of lead-zinc ore and has been shipping about six to ten cars a month since the first of the year. Work is also being done on the Happy Jack property which lies east of Death Canyon, in Blains Canyon.

8 to 12 passed. (Not applicable)

13. Access Roads:
The roads close to the mines are merely dirt with a grader having smoothed them off. When you get closer to the shipping points they may have been graded and gravelled by boys from CCC camps during the thirties.

14. Water Supply:
There are several springs located near the property which furnish ample water for culinary and mining purposes.

15. Power:
No power available except that unit for operating air compressor.

16. Labor:
Only labor employed is that connected with the operations.

17. Equipment and Facilities:
As stated on Tax Notice enclosed herewith states:
"Improvised Air Compressor, (Auto Motor) with Motor Power Unit, Jack Hammer and Accessories. Frame Shanty (cabin)

18. No comment to make on this number at present.

L. E. Kramer & Sons, Box 456, Tooele, Utah

March 30, 1951

Mr. J. P. Fraser
Box 456
Tooele, Utah

Dear Mr. Fraser:

In reply to your inquiry of March 10, application forms and instructions in relation to the exploration program approved recently for the assistance of mining properties have not yet been published. As soon as they are issued, they will be available at the Regional Office for your district which is 224 New Customhouse Building, Denver 2, Colorado, Mr. J. H. East, Jr., Regional Director. Further information can be obtained from the Regional Office or by writing to us in Washington.

The press release describing the program is enclosed for your information.

Yours very truly,

Otto Herres

OTTO HERRES, Chief
Geo-Mine Branch

enclosure

OHH:BS:ks

cc: Mr. Strobel
Mr. Moon
Mr. Hoth
Mr. McKnight
Mr. Herres
2 copies Executive Officer Field Team Region IV
Mr. J. H. East, Jr.
224 New Customhouse Building
Denver 2, Colorado
Files

LANDON F. STROBEL

MINING AGRICULTURE ORDNANCE SMELTING

W. C. TATE, Mayor
A. W. RHONE, Councilman
FRANK McKELLAR, Councilman
FRANKLIN WHITEHOUSE Jr., Councilman
FLOYD GORDON, Councilman
W. BEVAN ANDERSON, Councilman

TOOELE CITY
STATE OF UTAH

DALE WM. JAMES, City Manager
A. L. HANKS, Recorder
ZELLA G. GOLLAHER, Treasurer
M. EARL MARSHALL, Attorney
L. E. KRAMER, Judge
G. E. JORGENSEN, Marshal

Tooele, Utah, March 10, 1951

Hon. James Boyd
Director U.S.Bureau of Mines
Washington 25, D.C.

Dear Sir:

If not inconsistent, will you please send me forms of application for loans from the government for development of mining claims for the discovery and mining of stragetic metals, including lead and zinc; together with instructions for the proper execution of said forms to file applications for said loans.

Thanking you for prompt action on this matter, I beg to remain

Yours very truly

L. E. Kramer

L. E. Kramer, Box 456, Tooele, Utah

Copy- Hon.Reva Beck Bosone
House of Representatives

BUREAU OF MINES
WASHINGTON, D.C.
MAR 13 10 55 AM '51

3/28/51 Heres - reply

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1951

LANDON F. STROBEL
Executive Secretary