UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

OFFICE OF
REGIONAL DIRECTOR

REGION IV

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

Air Mail

August 28, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1416X, Lee Mining Company, 6055 South 9th East, Murray, Utah

Enclosed herewith are original and two copies of the above report.

The examining geologist and engineer recommend denial of the application. We concur with this recommendation.

J. H. East, Jr.

for A. W. Koschmann

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Administration
200 New Customhouse
Denver 2, Colorado

August 22, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1416X, Lee Mining Company, 6055 South 9th East, Murray, Utah

Enclosed are 8 copies of the report by J. W. Hasler and B. J. Sharp of the U. S. Geological Survey and M. H. Howes of the U. S. Bureau of Mines covering the above docket.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY Room 307, 320 South Main
Salt Lake City 1, Utah
13 August 1951

Memorandum

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

From: Ralph J. Roberts

Subject: Docket DMA-1416X, Lee Mining Company, 6055 South 9th East, Murray, Utah.

Enclosed are 8 copies of a report on the Lee Mining Company property in Neff Canyon east of Salt Lake City, Utah.

In response to the request for a field examination, dated June 28, 1951, from the Field Team, Region IV, an examination was made July 13, 1951.

The mine is in shale and limestone of Cambrian, Devonian, and Mississippian age which locally are faulted and brecciated, and are stained by iron oxide. The mineralization is very weak. There are no measurable reserves and the outlook for finding ore beyond the present workings is not good. It is recommended that the exploration loan be denied.

I concur with the examining geologists and engineer that the request for an exploration loan be denied.

Ralph J. Roberts

AUG 1951
RECEIVED
U.S. Geological Survey
Mineral Deposits Branch
Denver

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA-1416X, Lee Mining Company, 6055 South 9th East
Murray, Utah

M. H. Howes, Mining Engineer
U. S. Bureau of Mines

J. W. Hasler and B. J. Sharp, Geologists
U. S. Geological Survey

August 10, 1951

CONTENTS

	Page
Introduction	1
Location and accessibility	1
History and production	1
Geology	2
Ore deposits	3
Ore reserves	3
Proposed exploration	3
Conclusions and recommendations	4

ILLUSTRATIONS

Figure 1. Index map of Utah.

Figure 2. Mine map of Lee Mining Company, Neff Canyon, Salt Lake City, Utah.

Docket DMA-1416X, Lee Mining Company, 6055 South 9th East

Murray, Utah

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The Lee Mining Company, Docket DMA-1416X, Murray, Utah has made application to the Defense Minerals Administration for an exploration loan of $2160.00 to extend their present workings 60 feet to intersect the downward extension of lead ore reported to occur at the bottom of a vertical shaft in the vicinity of the tunnel. The mine has had little production and no net smelter returns are available on ore that was shipped.

The mine is in shale and limestone of Cambrian, Devonian and Mississippian age which are locally faulted and brecciated, and are stained by iron oxides. The mineralization is very weak. There are no measurable reserves, and the outlook for finding ore beyond the present workings is not good. It is recommended that a loan for $2160.00 to the Lee Mining Company be denied.

Docket DMA-1416X, Lee Mining Company, 6055 S. 9th East

Murray, Utah

INTRODUCTION

The Lee Mining Company, Docket DMA-1416X, Murray, Utah, has made application to the Defense Minerals Administration for an exploration loan for $2160.00 to extend their present workings 60 feet to intersect the downward extension of lead ore reported to occur at the bottom of a vertical shaft in the vicinity of the tunnel.

A request for a field examination was forwarded on June 28, 1951 to ascertain the geological possibilities of the applicant's property for lead ore. The field examination was made on July 13, 1951 by J. W. Hasler and E. J. Sharp of the U. S. Geological Survey and M. H. Howes of the U. S. Bureau of Mines.

Location and accessibility

The Lee Mining Company property is easily accessible by truck and may be reached by traveling east on 39th South Street from U. S. Highway 91 5 miles to Wasatch Blvd., thence north for 1 block to Neff Canyon. (See fig. 1) The mine is 3 miles southeastward up a good dirt road on the north side of Neff Canyon.

History and production

The Lee Mining Company was formerly known as the Last Dollar Mining Company and was owned by the present applicant's father. The Lee Mining Company is now a corporation consisting of Mr. Mark Barrett, 6055 South 9th East, Murray, Utah, President and Director; Delworth Strasser, 1455

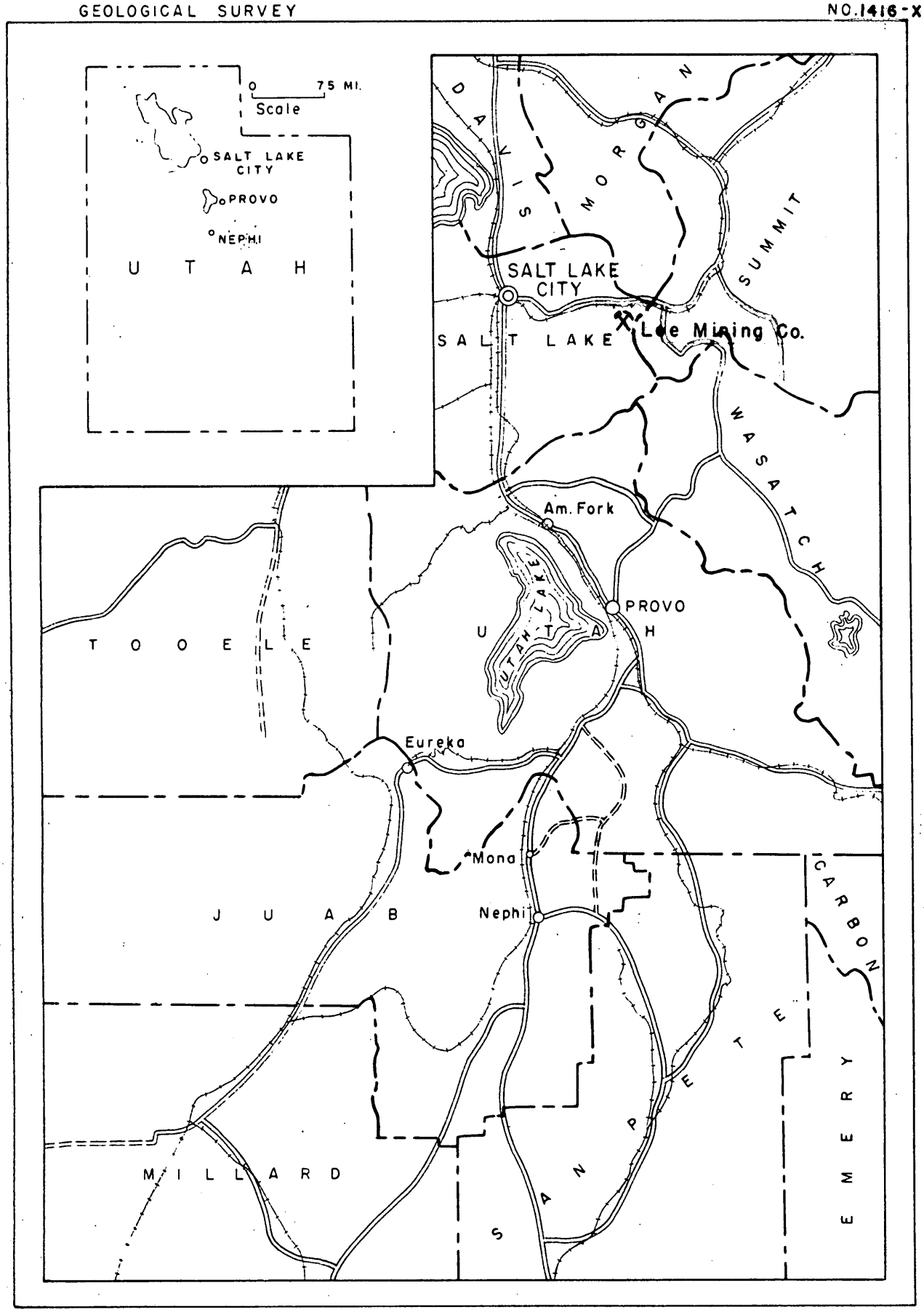

FIG. 1 INDEX MAP OF UTAH

0 5 10 15 20 MILES
Scale

Uintah Circle, Salt Lake City, Utah, Vice President and Director; Mark D. Barnett, 984 Prospect Drive, Salt Lake City, Utah, Director; J. E. Benningfield, 715 E. Union Ave., Midvale, Utah, Director; M. K. Walden, Salt Lake City, Utah, Secretary, Treasurer, and Director. The corporation owns 3 mining claims in Neff Canyon, Salt Lake City, Utah, namely Lee Mining Company Nos. 1, 2, and 3.

The mine workings consist of 500 feet of crosscutting, 22 feet of drifting, and a 72-foot shaft.

GEOLOGY

The country rock at the Lee mine (fig. 2) consists of a series of shales and limestones of Cambrian, Devonian, and Mississippian age. The mine portal is in calcareous, green-gray Ophir shale, which weathers to yellowish brown. The middle limestone member of the Ophir shale was found about 60 feet from the portal; the limestone is a mottle dark gray modular bed from 6 to 8 feet thick. The overlying Maxfield limestone of upper Cambrian age has been cut out in this area by an erosional unconformity bringing the Jefferson (?) dolomite of Devonian age directly above the Ophir shale. A very siliceous limestone occurs at the Jefferson-Ophir contact. A few weak, very tight faults striking northwestward and dipping from 35° - 75° SW cut the Jefferson dolomite. The Ophir shale and Jefferson dolomite strike E. to N. 45° W. and dip from 35° - 40° N. to northeast throughout the mine workings.

A persistent, tight, normal fault that strikes N. 20° E. and dips 35° E. brings the Deseret limestone of Missippian age down against the Jefferson

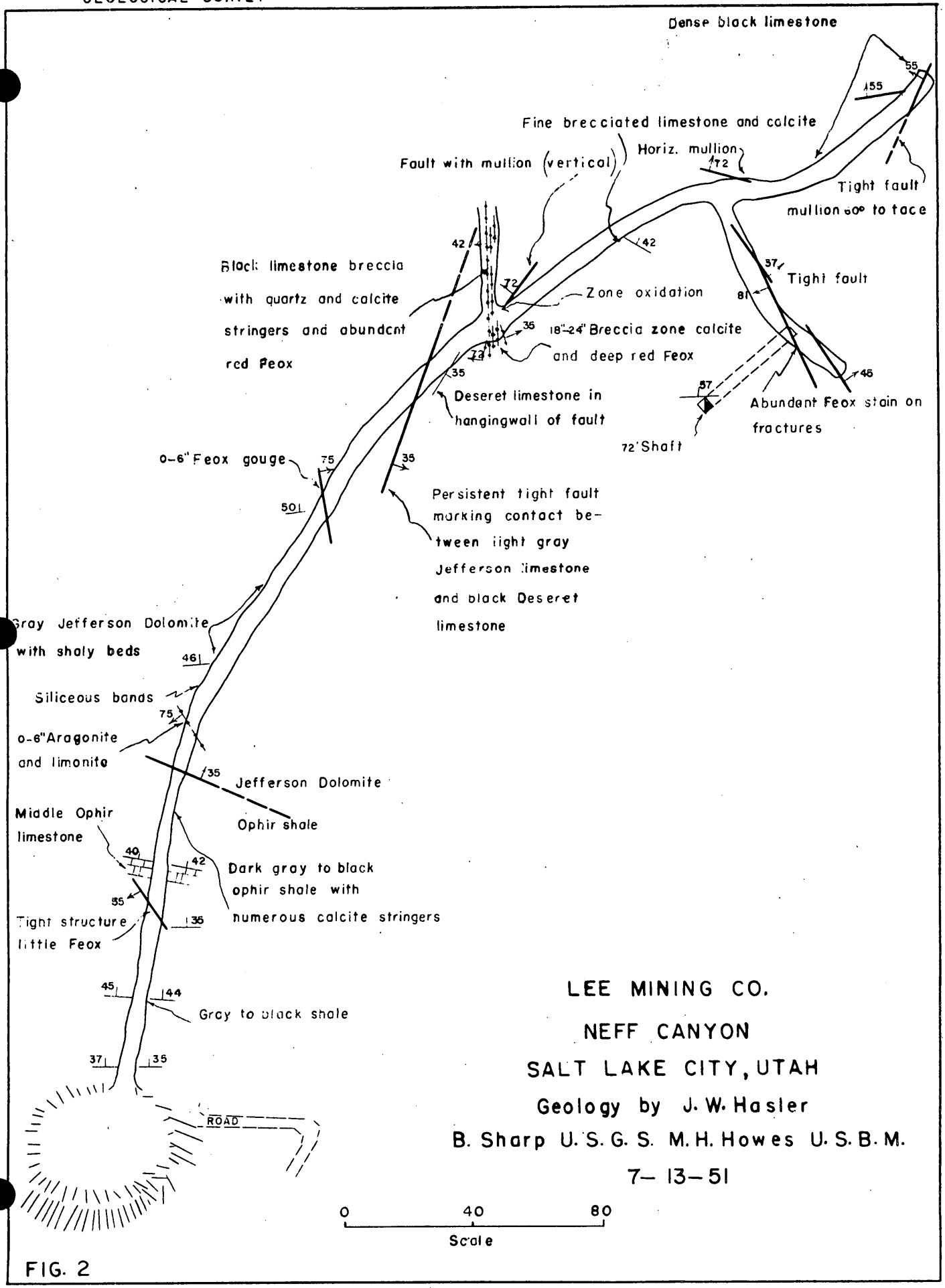
Dense black limestone
Fine brecciated limestone and calcite
Horiz. mullion
Fault with mullion (vertical)
Tight fault
mullion 60° to face
Black limestone breccia
with quartz and calcite
stringers and abundant
red Feox
Zone oxidation
Tight fault
18"-24" Breccia zone calcite
and deep red Feox
Deseret limestone in
hangingwall of fault
Abundant Feox stain on
fractures
72' Shaft
0-6" Feox gouge
Persistent tight fault
marking contact be-
tween light gray
Jefferson limestone
and black Deseret
limestone
Gray Jefferson Dolomite
with shaly beds
Siliceous bands
0-6" Aragonite
and limonite
Jefferson Dolomite
Ophir shale
Middle Ophir
limestone
Dark gray to black
ophir shale with
numerous calcite stringers
Tight structure
little Feox
Gray to black shale
ROAD
LEE MINING CO.
NEFF CANYON
SALT LAKE CITY, UTAH
Geology by J. W. Hasler
B. Sharp U. S. G. S. M. H. Howes U. S. B. M.
7-13-51
0
40
80
Scale

FIG. 2

and Ophir limestone at about 260 feet from the tunnel portal; the fault throw is approximately 570 feet. The Deseret limestone consists of dark gray to blue cherty limestone with shaly beds at its base.

Ore deposits

The Jefferson dolomite and especially the Deseret limestone are highly fractured and somewhat brecciated in the faulted area. A breccia and shear zone about 30 feet across occur in the hangingwall of the fault which has been rather heavily stained with red iron oxide and cut by many tiny calcite veinlet and stringers; this is the extent of the mineralization in the workings. No sulphide minerals were found in the workings.

The shaft 72 feet deep follows a tight fault and drag zone east of the main workings that strike N. 75° W. and dip N. 57° NE. The fault is only moderately iron stained.

Ore reserves

There are no measurable ore reserves or any inferred reserves as the zones of brecciation and shearing show only staining by iron oxides. The lead and silver assays given by the applicant were evidently conjectural.

PROPOSED EXPLORATION

The proposed exploration is to crosscut an additional 60 feet N. 73° E. to intersect the downward projection of the east striking fault cut in the shaft.

The geological probability of encountering any ore with this proposed exploration is small. It is therefore recommended that the loan to the Lee Mining Company be denied.

CONCLUSIONS AND RECOMMENDATIONS

The Lee Mining Company, Murray, Utah has made application with the Defense Minerals Administration for a loan of $2160.00 to explore for the downward extension of a supposed lead fissure previously reported in their shaft workings. The rocks in the mine area are somewhat sheared and brecciated along a fault that strikes N. 20° W., and are locally iron stained. As there is no ore exposed and no inferred ore reserves, it is recommended that the loan be denied.

REGIONAL DIRECTOR'S
OFFICE
REGION IV
SEP 21 1951
BUREAU OF MINES
DENVER, COLORADO

SEP 14 1951

Memorandum

Re: DMA-1416X
Lee Mining Company
Salt Lake County, Utah
Exploration loan $2160
Lead

To: Reports and Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Denial of exploration loan

The applicant has requested an exploration loan of $2,160 (Government participation, 50%) for driving 60 feet of exploratory drift to intersect the downward projection of a fault zone known to be present at the bottom of a shaft near their present tunnel.

The property was examined by the Field Team, Region IV, and they report that there is no sulphide mineralization in the present workings on the property. The shaft, which reportedly was in lead ore at the bottom, showed only moderate iron oxide staining along a tight fault and drag zone. The field team feels that the geological probability of encountering ore in the downward projection of the fault zone is small and recommends that the application for a loan be denied.

The Lead-Zinc Branch concurs with the field team's recommendation.

Returned herewith are:

1 copy of field team report
1 " " "Review of Application for Exploration Assistance".
3 copies Form MF-103
copies of correspondence to applicant

Approved:

Tom Lyon
Director, Supply Division

E. P. Billings, Chief
Lead-Zinc Branch

ABCampbell:emp
G 9-12-51

Copies to: A. H. East, Jr. (2)
Chief-Lead-Zinc Br.
E. T. McKnight 4204 GSA
O. Bishop
Directors r files 4214 GSA

Br. r. files 4214 GSA
Administrators r. file
Docket DMA files

[redacted]

[redacted] August 28, 1951

[redacted]

To: Executive Secretary, Defense Minerals Administration

From: The Field Team, Region IV

Subject: DMA Project 1.1.1.1, Lee Mining Company, 6095 South 5th Road, Harvey, Mich

Enclosed herewith are original and two copies of the above report.

The consulting geologist and engineer recommend denial of the application. We concur with this recommendation.

[redacted]

[redacted]

[redacted]

JHE:oj

DMA files
Subject
Chron.

204 New Customhouse
Denver, Colorado

June 26, 1951

Memorandum

To: S. R. Wilson (with brochure)

(Through Chief, Mining Division) PTA

Ralph Roberts

From: DMA Field Team, Region IV

Subject: DMA Docket 1416X, Lee Mining Company, 6055 South 9th East Street, Murray, Utah

Herewith is the brochure and review on the above docket. Please make the necessary examination and report, paying particular attention to the instructions contained in the review. If the exploration is to be recommended for approval, also be sure that all of the information requested for the contracts is included.

Paul Allsman
P. T. Allsman, Alternate

A. H. Koschmann
A. H. Koschmann

Attachments
PTA/al
cc-DMA files, Koschmann

11-2-51

REGIONAL DIRECTOR'S OFFICE
REGION IV
SEP 21 1951
BUREAU OF MINES
DENVER, COLORADO

SEP 14 1951

Re: DMA-1416X

Lee Mining Company, Incorporated
6055 South 9th East Street
Murray, Utah

Gentlemen:

Your application (DMA-1416X) for an exploration loan of $2,160 for exploratory drifting at your property at Neff Canyon, Salt Lake County, Utah, has been reviewed again by the Defense Minerals Administration after a report of an examination of the property by our field staff was received.

From this report, we conclude that your property has only minor showings of strategic minerals and that there is no reason to expect that the exploration work which you propose would find a significant amount of these minerals. The Defense Minerals Administration does not consider that the expenditure of public funds which you request is warranted. I regret, therefore, that your application must be declined.

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

Very truly yours,

Tom Lyon

Tom Lyon, Director
Supply Division

ABCampbell:emp
G 9-12-51
Copies to: J. H. East, Jr. (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
O. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files