AUG 28 1951

Re: E.A-14X

RECEIVED
CHIEF
REGION IV
AUG 31 1951
BUREAU OF MINES
DENVER, COLO.

Mr. LeGrande J. Higginson

Santaquin, Utah

Dear Mr. Higginson:

Your application for a loan to explore the New Deal, Utah Leader and Silver Star groups of mining claims has been reviewed by the Defense Minerals Administration. We have the report of a field examination made on your property to help us in judging your application.

On the basis of this report, we must conclude that the chances of finding any significant new tonnage of lead, zinc, or copper by the exploration that you propose are not favorable. The ore showing on the outcrop is too pockety to be of much economic value, and the outlook for extension of the deposit laterally or in depth is not promising. Under these circumstances, an expenditure of public funds for the explorations that you propose is unwarranted. I regret, therefore, that your application must be declined.

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

Very truly yours,

J.T.S.

Tom Lyon

Tom Lyon, Director
Supply Division

ETMcKnight:emp
G 8-23-51

Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
R. H. Mote
Reports and Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

REGIONAL
OFFICE
REGION IV
AUG 31 1951
BUREAU OF MINES
DENVER, COLORADO

AUG 28 1951

Re: DMA-14X
LeGrande J. Higginson
Mine near Santaquin, Utah
Exploration loan
Lead, zinc, copper

Memorandum

To: Reports and Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Denial of loan

The field team report shows that the lead and zinc are oxidized and occur in isolated pockets that cannot be economically worked. None of the pockets give promise in yielding more than a few tons of ore and the outlook for discovery for higher grade material by lateral drifting or by exploration in depth is not promising. The exploratory work proposed by the applicant was suggested without regard of the geologic features that control the ore at the property. The field has recommended that the application be denied and the Lead-Zinc Branch concurs with this recommendation.

Returned herewith are:

1 copy of field team report with transmittal letter of July 20.
Original and carbons of various transmittal memorandum.
2 copies of SF-103
2 copies of SF-100
1 copy proposed contract filled in by the applicant.
Original application dated October 30, 1950
Letter of inquiry to J. H. East, dated October 19, 1950.
3 copies of descriptions needed, Names of Mining Claims.

J. F. B.

Approved:

Tom Lyon
Director, Supply Division

J. R. Billings, Chief
Lead-Zinc Branch

ETMcKnight:emp
G 8-23-51

Copies to: J. H. East, Jr. Region IV (2)
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

22[illegible] New Customhouse
Denver, Colorado

July 3, 1951

Memorandum

To: Chairman, Coordinating Committee, Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: June report of DMA Field Team, Region IV

Attached in quadruplicate is Form MF-105, Monthly Report of DMA Field Team, Region IV, and a list of Pending Dockets as of July 3, 1951.

J. H. East, Jr.

Attachments

cc to: Koschmann
Allsman
McMillan
DMA Files

WDM:fwo

May 31, 1951

Memorandum

To: S. R. Wilson
(Through Chief, Mining Division)

Ralph Roberts

From: DMA Field Team, Region IV

Subject: DMA Docket 14X, LeoGrande J. Higginson, Santaquin, Utah, New Deal Mining Claim

We are forwarding you the brochure of application DMA 14X, LeoGrande J. Higginson. You will note that the Coordinating Committee recommends that a short investigation be made to determine the feasibility of the exploration project. You will also note that the statement in the letter by B. S. Butler.

Please consider this application and make a report without spending too much time as this is an exploration project.

Please return the brochure with your report.

J. H. East, Jr.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

Attachments
DMA 14 brochure

JHE/cl
cc-Koschmann
DMa files
Allsman

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

OFFICE
REGION IV
MAY 28 1951

May 21, 1951

Re: Docket DMA-14X
LeoGrande J. Higginson
Santaquin, Utah
New Deal Mining Claim

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

Dear Mr. East:

The amended application (14X), filed by Mr. ~~Higginson,~~ for an exploration loan of $20,935 has been reviewed by the Lead-Zinc Branch. The following pertinent facts should be noted.

1. This original request for a mining loan of $27,500 was denied by the Defense Minerals Administration in December 1950.

2. A second denial of the application was sent to the applicant on January 29, 1951.

These denials were based on B. S. Butler's conclusions that depth extensions of these deposits could not be expected since the ore now present was the result of downward leaching of primary ore bodies now removed by erosion. The original application suggested a plan for tapping the ore zone 3500 feet below the out crop.

The exploration project now under consideration suggests a plan to explore and develop the ore exposed on the surface and in short adits already driven. These are oxidized ores of lead and zinc but the geologic nature of their occurrence is not clearly stated. The tonnage of ore that might be uncovered by this project is not based on accepted geologic deductions and therefore does not represent a valid evaluation of the possible ore reserves. The applicant proposes to finance this work by substituting the value of his labor and that of one miner in lieu of actual cash. He also anticipates an income from immediate ore sales.

It is recommended that this property be examined by the field team to determine if the proposed project is feasible and one that merits consideration for the exploration program.

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Approved:

Lowell B. Moon

Member, Bureau of Mines

Olaf P. Rove

Member, Geological Survey

May 21, 1951

Re: Docket DMA-147
LeoGrande J. Higginson
Santaquin, Utah
New Deal Mining Claim

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

Dear Mr. East:

The amended application (1a.), filed by Mr. Higginson, for an exploration loan of $20,935 has been reviewed by the Lead-Zinc Branch. The following pertinent facts should be noted.

1. His original request for a mining loan of $27,500 was denied by the Defense Minerals Administration in December 1950.

2. A second denial of the application was sent to the applicant on January 29, 1951.

These denials were based on B. S. Butler's conclusions that depth extensions of these deposits could not be expected since the ore now present was the result of downward leaching of primary ore bodies now removed by erosion. The original application suggested a plan for topping the ore zone 2500 feet below the out crop.

The exploration project now under consideration suggests a plan to explore and develop the ore exposed on the surface and in short adits already driven. These are oxidized ores of lead and zinc but the geologic nature of their occurrence is not clearly stated. The tonnage of ore that might be uncovered by this project is not based on accepted geologic deductions and therefore does not represent a valid evaluation of the possible ore reserves. The applicant proposes to finance this work by substituting the value of his labor and that of one miner in lieu of actual cash. He also anticipates an income from immediate ore sales.

It is recommended that this property be examined by the field team to determine if the proposed project is feasible and one that merits consideration for the exploration program.

ALBrokaw-dre
G: 5-21-51

Very truly yours,

Tom Lyon

Approved:

L. B. Moon

Member, Bureau of Mines

Olaf N. Rove

Member, Geological Survey

Tom Lyon, Chairman
Coordinating Committee

Copy to: J.H. East, Jr. Region IV(2)
Chief, Lead-Zinc Br.
E.T. McKnight, 4203, GSA
L.B. Moon
E.M. Mote
D.F. Strobel
T. Lyon
Dr. Read. file 4212/GSA
Br. Read. file 4212
Files

May 22, 1951

Re: Docket DMA-14X

Mr. LeoOrande J. Higginson

Santaquin, Utah

Dear Mr. Higginson:

Your application (Docket DMA-14X) for a Government 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 the Executive Officer of the Field Team, Mr. J. H. East, Jr., 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

ALBrokaw:emp
G 5/22/51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
Tom Lyon
Directors reading file 4214 GSA
Br. reading file 4214 GSA
Files

APR 1 0 1951

APR 12 1951

In reply please
refer to IMA-14

Mr. Le Grande J. Higginson

Santaquin, Utah

Dear Mr. Higginson:

One of the purposes of the Defense Production Act of 1950 is the encouragement of exploration, development and mining of strategic minerals and metals. Where an applicant has proven reserves of strategic materials, federal aid in mining can be given through procurement contracts for such materials as are in short supply. On the strength of these contracts, the applicant can obtain private financing in most instances.

The program recently approved for encouragement of exploration of strategic materials calls for participation on the part of the applicant. For zinc, lead and copper deposits it will be necessary to match Government funds on an equal basis. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be canceled if unsuccessful. The details of the plan, explaining the projects that will be eligible for assistance, the terms and schedules of financing, repayment, and other pertinent information, are enclosed.

A review of your application (IMA-14) for financial aid in exploring by drifting on your prospect indicates that your proposal may be considered under this exploration program. Details concerning expenditures that will be considered chargeable to exploration aid will be subject to a final determination by negotiation. The amount that will be applied toward the total request will depend upon the amount requested in your formal application.

Before we can proceed further with consideration of your application, which may or may not require a field examination, please indicate your willingness to provide your share of the funds needed to carry out the proposed exploration. Any modification of your original proposal that you may wish to make will be considered, but you should be specific concerning the work you wish to undertake.

Very truly yours,

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

ALBrokaw:emp G 3/30/51
Copies to: 2 copies to
J. H. East, Jr. Region IV
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
L. B. Moon
R. H. Mote
L. F. Strobel
Enclosures

C. O. Mittendorf
Files

copy to: Chief, Lead-Zinc Branch
Geological Survey - McKnight
J. H. Hodges

M. M. Note
2 copies to Executive Officer,
Regional Field Team, Region IV
Strobel
Wittendorf
Files

REGIONAL DIRECTOR'S OFFICE
REGION IV
FEB 9 - 1951
BUREAU OF MINES
DENVER, COLORADO

January 31, 1951

Mr. La Grance J. Higginson

Santaquin, Utah

Dear Mr. Higginson:

In reply to your letter of January 15 regarding your application for a Government loan (DMA 14):

As explained in the enclosed press release, before a loan for development will be made by the Reconstruction Finance Corporation, the Defense Minerals Administration must certify that the minerals sought are necessary for national defense. Furthermore, projects to be approved by the Defense Minerals Administration must, in its judgment, show reasonable promise of yielding material of acceptable grade, physical character, and specifications in amounts that will significantly improve the mineral supply position for national defense.

The documents supporting your application show that a little lead-zinc ore has been produced by your property. Your application does not indicate that there are measured ore reserves. The probable success of your proposal to develop the downward extension of a fissure vein 3,500 below its surface exposure is not substantiated by evidence submitted. In view of the conclusions made by competent geologists it is doubtful that commercial ore bodies of lead and zinc will be found by exploring this fissure to great depths.

Under these circumstances the Lead-Zinc Branch, DMA, does not believe it is a justifiable expenditure of public funds to finance an exploration project of the type you propose. The long range supply picture for lead and zinc is not at present so critical as for some other minerals, hence only the most promising lead-zinc projects can be supported at this time.

The Lead-Zinc Branch wishes to thank you for bringing to its attention this additional information on your property.

Very truly yours,

E.J.Lyons:jeh
G-1/31/51

C. H. Williston, Director
Supply Division
Defense Minerals Administration

Enclosure: 1

Noted GHK 1/11/51

DMA

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

January 4, 1951

REGIONAL MINES OFFICE
RECEIVED
JAN 11 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. LeGrande J. Higginson

Santaquin, Utah

Dear Mr. Higginson:

Your application for Government financial aid to develop the Silver Star, Utah Lead, and New Deal mining claims in the Santaquin district, Utah has been reviewed by the Lead-Zinc Committee of the Defense Minerals Administration and is rejected on the basis of geological information supplied by the United States Geological Survey. Geologists of that organization have examined the area in which your mine is located and have concluded that the existing ore bodies are the result of downward leaching of a primary ore body since removed by erosion. The possibility of finding primary ore at depth through further exploration is thus negligible. If, however, you have additional information available which in your opinion has a bearing on the geological information already at hand and would alter the basic conclusions already reached the Lead-Zinc Committee would be pleased to review it.

I regret that I cannot give you a more favorable report on your application.

Very truly yours,

S. H. WILLISTON, Chief
Supply Division, DMA

Copy to - Mr. John East, Jr., Regional Director
Executive Officer Field Team
Denver, Colorado

GHE

Form 6–98

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

U. S. GOVERNMENT PRINTING OFFICE 16—53493-2

[illegible] Bar Headquarters
Denver 2, Colorado

July 20, 1951

Memorandum

To: Landon Steinbel, Executive Secretary

From: DSA Field Team, Region IV

Subject: DSA Docket 1A2 - Lagrande Higginson, New Deal Mining Claim, Utah County, Utah

Herewith is transmitted the original and two copies of the examiners report on the above docket.

My concur with the recommendation that the lease be denied.

J. H. Kirk, Jr.

L. K. Hutchinson

Attachment

Original copy by air mail
Two copies by regular mail

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

200 New Customhouse
Denver 2, Colorado

June 25, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 14X--Legrande Higginson, New Deal Mining Claim, Utah County, Utah.

Enclosed are 7 copies of the report on DMA Docket 14X by J. W. Hasler, R. W. Osterstock, and B. J. Sharp of the Geological Survey and by H. F. Buchholtz of the Bureau of Mines.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (7)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 307, 320 South Main
Salt Lake City 1, Utah
20 June 1951

Mr. A. H. Koschmann
U. S. Geological Survey
200 New Customhouse
Denver 2, Colorado

Dear Kosch:

Enclosed are 7 copies of the report on Docket DMA-14X, Legrande Higginson, New Deal Mining Claim, Utah County, Utah.

The property was examined by J. W. Hasler, R. W. Osterstock, and B. J. Sharp of the Geological Survey and by H. F. Buchholtz of the Bureau of Mines to determine the feasibility of the proposed project to explore oxidized lead showings near Santaquin, Utah.

The ore reserves are small and the lead-zinc metallization is low grade. The outlook for the discovery of new ore bodies is not promising. It was accordingly recommended by the examining geologists and engineer that the request for a loan be denied. I concur in this recommendation.

Sincerely yours,

Ralph

Ralph J. Roberts

JUN 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

DMA-14X, Legrande Higginson, New Deal Mining Claim

Utah County, Utah

(Lead-Zinc)

H. F. Buchholtz, Mining Engineer
U. S. Bureau of Mines

J. W. Healer, Geologist
U. S. Geological Survey

June 20, 1951

DMA-14X, Legrande Higginson, New Deal Mining Claim

Utah County, Utah

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Legrande J. Higginson of Santaquin, Utah has applied for a loan of $20,935 to be used to explore an oxidized lead property near Santaquin (Docket DMA-14X).

The Field Team, Region IV on May 31 requested that short investigation be made to determine the feasibility of the exploration project.

The lead deposit consists of gossan-like bodies along northeastward trending fractures in limestone. The lead-zinc metallization is low grade and discontinuous; the outlook for extension of the deposit laterally or in depth is not promising, and the project is not considered to have merit.

It is therefore recommended that the request by Legrande J. Higginson for a loan to explore the New Deal, Utah Leader, and Silver Star groups be denied.

DMi-1AX, Legrande Higginson, New Deal Mining Claim

Utah County, Utah

INTRODUCTION

Legrande J. Higginson of Santaquin, Utah has applied for a loan of $20,935 to explore an oxidized lead deposit on the New Deal mining group near Santaquin, Utah.

The property is 4 1/2 miles southeast of Santaquin, Utah County, Utah in the Santaquin Mining District, and consists of the New Deal Nos. 1, 2, and 3, Utah Leader Nos. 1 and 2, and Silver Star claims. These claims were formerly known as the Blue Eagle group, and are now owned by Mr. Higginson. They are on the south slope of the south peak of Santaquin Ridge and can be reached by going southeast from Santaquin on the Santaquin Canyon road 4 1/2 miles, then taking a trail the last 400 feet to the mine. The production from the property is not known, but four shipments of silver ore and 2 shipments of zinc are reported by the applicant. It is doubtful that the shipments totalled more than a few tons in all.

The examination was made June 12 by J. W. Hasler, R. W. Caterstock, and R. J. Sharp of the Geological Survey and H. F. Buchholtz of the Bureau of Mines.

GEOLOGY

The lead-zinc deposits are in dense, grayish-black limestone of Mississippian age. In the mine area the limestone strikes northward and dips eastward. The limestone is cut by irregularly spaced fractures trending northeastward and dipping steeply southeastward. The fractures are generally tight and lack continuity.

The lead minerals are cerrusite and anglesite which occur sporadically associated with iron oxides in pockets along the fractured zones. Selected samples are reported to contain 2-13 percent zinc, 2 percent lead, and as much as 1.2 oz. silver to the ton. None of the pockets give promise of yielding more than a few tons of material.

Ore Reserves

There are only a few tons of indicated and inferred ore exposed in the area. The exposed material containing lead and zinc is/are not of commercial grade, and the outlook for discovery of higher grade material is not promising. The proposed exploratory work outlined in the application was suggested without regard to the geologic features that control ore at the property.

CONCLUSIONS

It is concluded that the exploration proposals made by Legrande Higginson on the Higginson property are without merit. It is therefore recommended that the application be denied.