224 New Customhouse
Denver 2, Colorado

November 26, 1951

Mr. A. B. Calloway
528 W. Platte
Colorado Springs, Colorado

Re: DMA Docket 2102

Dear Mr. Calloway:

Your application for a loan to explore the Swiss Boy and Silver Crop Lead-Zinc Mine has been reviewed by the Defense Minerals Administration. We have a 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 tonnage of mineable zinc-lead ore are unfavorable.

The deposits consist of a quartz-calcite vein in intrusive quartz-monzonite vein varying in width from a few inches up to 3 feet. The mineralization consists of disseminated sphalerite and galena in pockets, but most of the veins are barren of base metals. In view of these circumstances the expenditure of public funds for the exploration you propose is unwarranted and your application is hereby denied.

We wish to thank you for bringing the property to our attention. We are returning the original copy of your application, Patent No. 3088, and the map of the Mt. Elbert Quadrangle.

Very truly yours,

J. H. Ernst, Jr.
Executive Officer
DMA Field Team, Region IV

Enclosure
~~Monitor~~ WCM

cc: DMA Docket, Circm
Koschmann
Traver
John M. Smith, Acting Chief,
Administrative Management Div.

224 New Customhouse
Denver 2, Colorado

November 26, 1951

Mr. A. B. Calloway
528 W. Platte
Colorado Springs, Colorado

Re: DMA Docket 2102

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Very truly yours,

J. H. Eant, Jr.
Executive Officer
DMA Field Team, Region IV

Enclosure
WDM:fwo

cc: DMA Docket, Chron
Roechman
Traver
John A. Smith, Acting Chief,
Administrative Management Div.

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

Mining Division
Region IV

November 26, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2102, A. B. Calloway, applicant; Swiss Boy and Silver Crop Lead-Zinc Mine, Chaffee County, Colorado

The application of the subject docket was for an exploration loan of $33,964.00.

The proposed exploration program consists of the rehabilitation of a 10-foot winze, sinking an additional 150 feet, and driving 300 foot raises.

The deposit consists of a strong quartz-calcite vein in intrusive quartz-monzonite porphyry. The vein varies in width from a few inches up to 3 feet. Mineralization consists of disseminated sphalerite and galena, but the vein is mostly barren of base metals.

Past production between 1880 and 1890 was mainly silver ore. A sample of sorted ore taken by an engineer of the Bureau of Mines in 1949 assayed 0.06 ounces of gold and 37.4 ounces of silver per ton, 0.23 per cent copper, 5.75 per cent lead, 16.5 per cent zinc, and less than 0.01 per cent antimony.

A. B. Calloway has only about one-third interest in the property, and submitted the application without consulting his partners, and is unable to participate in an exploration loan.

Due to the facts that the geological probability of discovery of commercial base metal ores is not favorable and that the applicant cannot participate in the exploration, the examining team recommends denial of the application, with which we concur.

A letter of denial has been sent to the applicant.

W. H. King

W. H. King, for
P. T. Allsman

WDKsfwo
cc: [illegible], Subj., [illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center
November 16, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA-F182, Swiss Ray and Silver Crop Mines, Chaffee County, Colorado

Please find enclosed eight copies of the subject Summary, Conclusions, and Recommendations by F. D. Everett, and H. T. Schaezberger and Engineering Report by Everett.

A. H. Kaschmann has indicated that no U. S. Geological Survey report other than a memorandum will be submitted on the docket.

According to Everett, Calloway, nor any of his associates, are able to participate in an exploration loan and apparently the associates were not consulted. If that is not sufficient reason for denial of the loan, lack of equipment, slight likelihood of making an ore discovery of any consequence, and inexperience of the applicant should be.

I concur with Everett's recommendation that the request be denied.

The brochure, review, and copies of the Senators letters submitted with the Field Team's instructions for examination are also enclosed. Evidently some of the data presented by the applicant contained in an envelope attached to the brochure should be returned to him. Your attention is called to your notation on the envelope.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-6102, Spring Bay and Silver Creek Mines

Chaffee County, Colo.

F. D. Everett, Mining Engineer
Bureau of Mines

H. T. Schmusberger, Geologist
U. S. Geological Survey

November 15, 1951

Engineering

SWISS BOY AND SILVER CROP MINES
GRAFTON COUNTY, COLO.
A. B. CALLOWAY, APPLICANT

Summary, Conclusions, and Recommendations

By F. D. Everett
Mining Engineer
Bureau of Mines

and

H. T. Schaeffer
Geologist
U. S. Geological Survey

SWISS BOY AND SILVER CROP MINES
CHAFFEE COUNTY, COLO.
A. B. CALLOWAY, APPLICANT

SUMMARY, CONCLUSIONS, and RECOMMENDATIONS

By F. D. Everett and H. T. Schaenberger

A. B. Calloway applied for a 75 percent Government participation exploration loan for $33,964.00 to raise and sink on the vein and to recover some removed backfill zinc ore at the Swiss Boy and Silver Crop Mines, Chaffee County, Colo. The ore was reported to contain antimony. The property comprises two claims in the La Plata Mining District, 13 miles west of Granite, Colo.

The Swiss Boy tunnel was driven on a quartz-calcite vein in tertiary quartz monzonite porphyry. The Swiss Boy and a few other mines near Winfield, an abandoned mining camp a mile from the Swiss Boy, have yielded silver ores in the past, mainly before 1900. The only mineral observed was in a 4-inch wide vein which contained disseminated sphalerite and galena. A sample of the sorted high-grade ore taken from the shipping bin assayed less than 0.01 percent antimony.

The mine would have to be completely equipped. Calloway, who has 36.41 percent of the ownership of the claims, is the only one of these co-owners who has indicated any willingness to participate in an exploration loan on the property. Calloway stated he is financially unable to participate in either a 75 or 50 percent Government exploration loan.

The loan accordingly cannot be recommended for approval.

SWISS BOY AND SILVER CROP MINES
CHAFFEE COUNTY, COLO.
A. B. CALLOWAY, APPLICANT

Engineering Report

By F. D. Everett
Mining Engineer
Bureau of Mines

SNIDER BOX AND SILVER CROW MINES
CHAFFEE COUNTY, COLO.
A. B. CALLOMAX, APPLICANT

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ILLUSTRATIONS

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SHINE BOY AND SILVER CROP MINES
SHAFFER COUNTY, COLORADO

EXAMINATION REPORT

By

F. D. Everett

INTRODUCTION

A. B. Calloway, 525 West Platte Street, Colorado Springs, Colorado, applied for a Defense Minerals Administration exploration loan, Tenant 2108, for $33,750.00 or less, 75% percent Government participation, to rehabilitate, sink 150 feet of winze and drive 300 feet of raises. Part of the loan is to finance the work of tapping backfill ore in the discovery shaft. The ore values are in gold, silver, lead and zinc. Antimony is reported to occur and the 75 percent Government participating loan is based on this occurrence.

ACKNOWLEDGMENTS

Mr. Calloway was very co-operative and courteous in showing his property. E. T. Schaefferman, Geologist for the U. S. Geological Survey, accompanied the Bureau of Mines engineer on the examination.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property is 33 miles by road west of Granite, Chaffee County, Colorado in Sec. 26, T. 12 S., R. 81 W., 6th P.M. It is reached by travelling west up Clear Creek canyon on county road 130 branching from U. S. Highway 24 about 1 mile south of Granite. The property is in the La Plata Mining District (Fig. 1).

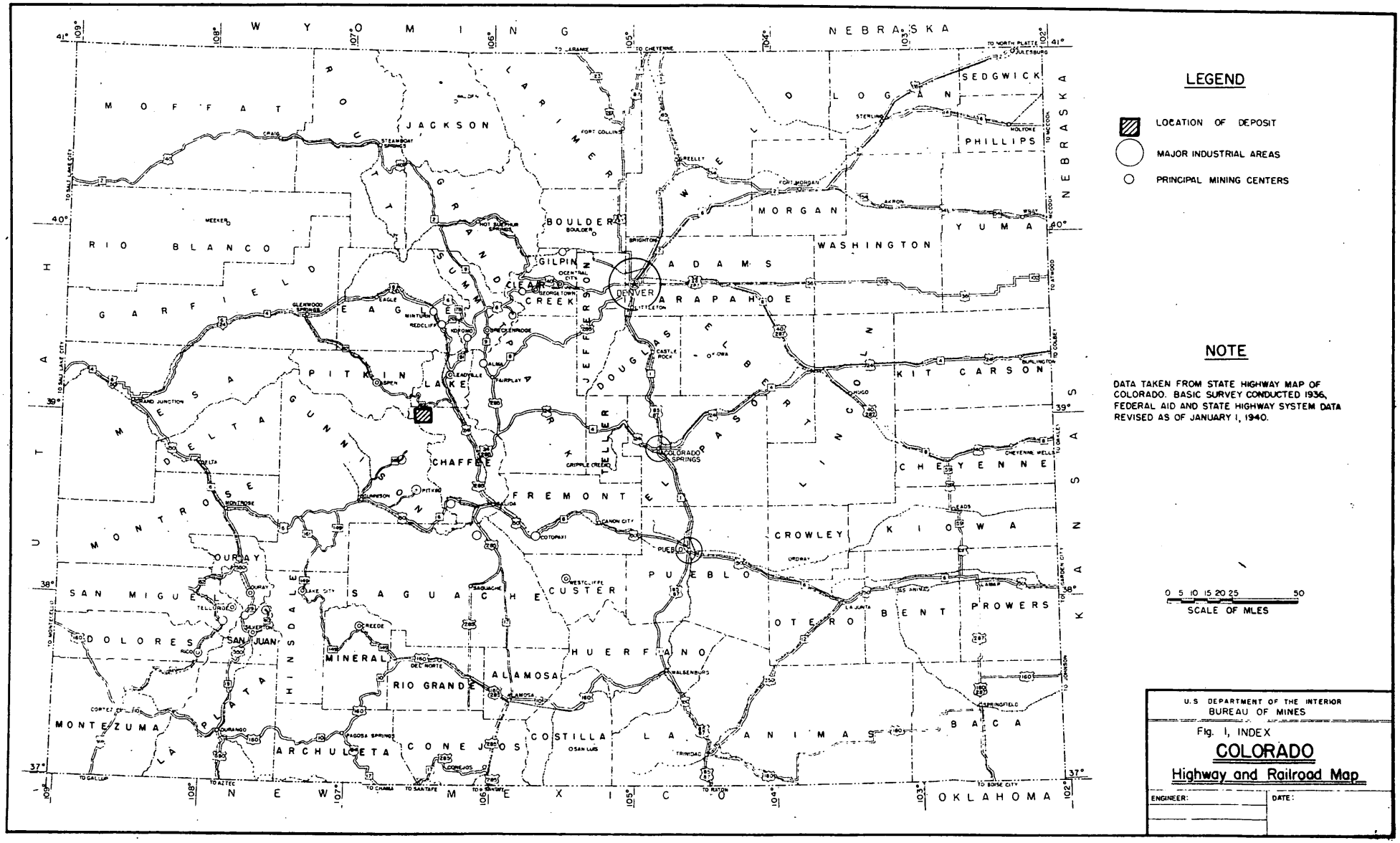

FIG. 1-LOCATION MAP, SWISS BOY & SILVER CROP MINES, CHAFFEE CO., COLO., D.M.A-2102

The county maintains the road up Clear Creek canyon to Winfield, an abandoned mining camp. Winter snow is removed for local ranches for 4 miles from U.S. Highway 24. The last mile of road is merely a rough trail which terminates about 300 feet vertically, and 800 feet on the slope from the Swiss Boy mine.

The property is in a rugged mountain area at an altitude of about 11,000 feet. The mine is about 800 feet above Clear Creek.

Leadville is 19 miles north of Granite on U.S. Highway 24.

HISTORY AND PRODUCTION

The property was reportedly worked between 1880 and 1890. Some work was reported in 1936 by the owner. The production has been from predominantly silver ore.

OWNERSHIP AND EXTENT

The property comprises two patented claims, the Swiss Boy, Survey No. 3303, and Silver Crop, Survey No. 3304. The property is owned as follows: 17/48 by A.B. Calloway, 29/48 by Dorma Torres of Creede, Colorado, and 2/48 by W. J. Rice, Arvingtion, Montana.

Although Calloway only owns 35.42 percent of the property, he applied for a loan without consulting the other two part owners. Calloway indicated that in his opinion neither of the other co-owners would be financially able or interested in participating in a DMA loan.

DESCRIPTION OF THE DEPOSITS

The deposit consists of a strong quartz-calcite vein in a tertiary intrusive quartz monzonite porphyry. The vein strikes about N. 20° E., dips 70° NW., and consists of quartz, calcite, crushed porphyry and gouge. In a raise the vein contained disseminated sphalerite and galena over a width of 4 inches. The vein varies from a narrow quartz stringer up to 3 feet in width and is mostly barren of metalliferous minerals. It was

mined principally for silver between 1880 and 1890.

Vein walls are firm and stand without timber. A sampleof high-grade ore taken in 1949 by a Bureau of Mines engineer assayed 0.06 ounces of gold and 37.4 ounces of silver per ton, 0.23 percent copper, 5.75 percent lead, 16.5 percent zinc and less than 0.01 percent antimony. This sample was from selected ore stored in the ore bin.

No appreciable amounts of antimony could be expected.

ORE RESERVES

Calloway reports that some zinc ore was dumped in the old shaft and backfilled in old drifts off from the shaft in the early day mining operations. These workings are caved and inaccessible, but the amount of backfilled ore could not be great as indicated by the size of stopes above the Swiss Boy tunnel.

PRESENT STATUS

Exploration and Development

The development work consists of a discovery shaft with an unknown amount of drifting, Swiss Boy tunnel with about 550 feet of drifts and the Silver Crop tunnel which is 335 feet to a large cave. A shallow winze, probably less than 10 feet deep, which is filled with water, is below the old shaft in the Swiss Boy tunnel. Calloway reports good ore showing 4 feet down in this winze. The amount of any ore would be small. A raise which has been stoped for short distances on the vein near the Swiss Boy level, extends upward for about 80 feet. The raise has ladders for 30 feet.

Mining and Milling Equipment

The only mining equipment consists of one dilapidated mine car. The single basket aerial tramway needs a gasoline motor. There is no milling

equipment. Milling facilities are available at Leadville, 19 miles north of Granite.

PROJECT PROPOSALS, WITH COSTS

The applicant proposes to drive three raises, sink a winze, and recover ore removed to be backfilled in the shaft, all from the Strike Boy tunnel. The proposed raises would be located where the vein branches or splits; the proposed locations are not based on any particular mineral occurrence. The chance for finding ore would be equally good by raising anywhere along the vein.

Sinking below the shaft and the raise, which have probably yielded a small amount of ore, appear to be the best exploration possibilities.

The backfilled ore in the old shaft probably would not warrant recovery as the mined silver ore generally occurs with the lead and zinc minerals. The zinc ore, although being undesirable in the early days of mining, would have been difficult to separate from the silver ore.

Ore Equipment

The mine would have to be completely equipped.

Transportation

The access road from Clear Creek to the mine would have to be repaired. In addition a mile and a half of early road would have to be constructed to the Strike Boy tunnel. An alternative would be reconstruction of the aerial tram.

Manpower

Any operation would require at least three men. Labor costs are $1.50 per hour. A. B. Galloway would supervise the work.

Power

REA electric power is available.

Water

Water for mining could be collected in the mine or hauled from Clear Creek.

PROPOSED FINANCING

The applicant stated that he was unable to contribute anything to the project other than his interest in the property, the existing facilities, mine car, and his services.

CONCLUSIONS

The Swiss Boy mine has probably produced a small quantity of silver ore which contained lead and zinc minerals. The proposal by the applicant does not have a great deal of merit. The arrangement is not favorable for a loan in that only Shilpsey who owns about a third of the property submitted the application without consulting the other owners and he is unable financially to participate in a Defense Minerals Administration exploration loan.

RECOMMENDATIONS

The request for a $32,964.00 exploration loan for the Swiss Boy mine is not recommended for approval.

224 New Customhouse
Denver 2, Colorado

November 26, 1951

Mr. A. B. Calloway
528 W. Platte
Colorado Springs, Colorado

Re: DMA Docket 2102

Dear Mr. Calloway:

Your application for a lease to explore the Swiss Boy and Silver Crop Lead-Zinc Mine has been reviewed by the Defense Minerals Administration. We have a 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 tonnage of mineable zinc-lead ore are unfavorable.

The deposits consist of a quartz-calcite vein in intrusive quartz-monzonite vein varying in width from a few inches up to 3 feet. The mineralization consists of disseminated sphalerite and galena in places, but most of the veins are barren of base metals. In view of these circumstances the expenditure of public funds for the exploration you propose is unwarranted and your application is hereby denied.

We wish to thank you for bringing the property to our attention. We are returning the original copy of your application, Patent No. 3088, and the map of the Mt. Elbert Quadrangle.

Very truly yours,

J. H. Ernst, Jr.
Executive Officer
DMA Field Team, Region IV

Enclosure

WDH:fwe

cc: DMA Docket, Chron
Kaschmann
Trever
John H. Smith, Acting Chief,
Administrative Management Div.

DMA Form 3b.

DEFENSE MINERALS ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMA Docket No. 2102

Change:	From	To	
	I 1 ☐	I 1 ☐	
	I 2 ☐	I 2 ☐	
	I 3 ☒	I 3 ☒	
	I 4 ☐	I 4 ☐	
	I 5 ☐	I 5 ☐	
	I 6 ☐	I 6 ☐	
	III 1 ☐	III 1 ☐	
	III 2 ☐	III 2 ☒	11/20/51
	III 3 ☐	III 3 ☐	
	III 4 ☐	III 4 ☐	

Add:

II 7 $ 93,964.00

II 8 $

II 8a %

Initials of person preparing sheet WDM

Date sheet prepared 11/20/51

WALTER F. GEORGE, GA., CHAIRMAN
TOM CONNALLY, TEX.
HARRY FLOOD BYRD, VA.
EDWIN C. JOHNSON, COLO.
CLYDE R. HOEY, N. C.
ROBERT S. KERR, OKLA.
J. ALLEN FREAR, JR., DEL.
EUGENE D. MILLIKIN, COLO.
ROBERT A. TAFT, OHIO
HUGH BUTLER, NEBR.
EDWARD MARTIN, PA.
JOHN J. WILLIAMS, DEL.

ELIZABETH B. SPRINGER, CHIEF CLERK

United States Senate

COMMITTEE ON FINANCE

September 20, 1951

DMF-File

DMA-2102

Dr. W. C.Schroeder
Administrator
Defense Minerals Administration
New Interior Building
Room 4428
Washington, D. C.

Dear Dr. Schroeder:

Mr. A. B. Calloway, 528 West Platte Street, Colorado Springs, Colorado, has forwarded to us his application forms MF-200.

We are enclosing for your examination the application forms and other papers.

We will appreciate your kind consideration of Mr. Calloway's application.

Very sincerely yours,

Ed C. Johnson

Ed C. Johnson, U.S.S.

Eugene D. Millikin, U.S.S.

Enclosures

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 24 8 53 AM '51

REGIONAL DIRECTOR'S OFFICE
REGION IV
OCT 10 1951
BUREAU OF MINES
DENVER, COLORADO

OCT 8 1951

Re: DMA-2102
Exploration application
from
Mr. A. B. Calloway
528 W. Platte
Colorado Springs,
Colorado

Hon. Ed C. Johnson
Hon. Eugene D. Milliken
United States Senate
Washington 25, D. C.

My dear Senators Johnson and Milliken:

Mr. A. B. Calloway's application for an exploration loan, which you transmitted to the Defense Minerals Administration, has been reviewed. Some additional information is required before a complete appraisal can be made. We are, therefore, forwarding the application to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, 224 New Customhouse, Denver, Colorado, and have recommended a field examination of Mr. Calloway's property.

We wish to thank you for forwarding the application.

Sincerely yours,

C. O. Mittendorf

Acting Administrator

ELNewcomb:emp
G 10-1-51
Copies to: Administrator
Deputy Administrator
J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Branch
E. T. McKnight 4204 GSA
O. M. Bishop
Directors r. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

OCT 2 1951

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

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

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

Dear Sir:

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

Docket No. 2102

Commodity Lead, zinc

Applicant Mr. A. B. Calloway, 528 W. Platte, Colorado Springs, Colorado

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

Very truly yours,

Tom Lyon
Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

T. P. Thayer
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2102

Commodity Lead, zinc

Total Amount

Govt. Participation

1. Name and Address of Applicant Mr. A. B. Calloway, 528 W. Platte, Colorado Springs, Colorado

2. Location of Property Silver Boy and Silver Crop Mines, NW corner of Chaffee County, Colorado 1 miles N. of Winfield

3. Mineral or metal Lead, zinc Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination X

e) Is there an alternative and favorable project?
(If so, attach an explanation)

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

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

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

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

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

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes, 8 (b)

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

_____

Is a field check needed on this point? No

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

a) Is the project adequately described? No

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

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

_____

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

If not, what part of it is? _____

_____

_____

_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Don't know

f) Should more information be requested from applicant? Yes

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Don't know

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

c) Is a field check needed? Yes

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

a) Is it applicable? No

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

c) Are rents and charges reasonable?_____

d) Is a field check needed? No

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

a) Are there sufficient data? No

b) Is the schedule adequate for the work proposed? Don't know

c) Is the schedule excessive for the work proposed? Don't know

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes

b) Sufficient data? No

c) Reasonable?

d) Field check needed? Yes

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

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Applicant request 75% exploration loan based on antimony on property. Very possible 50-50 basis is acceptable. However, field examination is required for additional information in either case as indicated on these review sheets.

Reviewed by: E. L. Newcomb GS 9-26-51

Date 10-1-51

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

WMT/amh

DMA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center
November 16, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA-2102, Swiss Bay and Silver Crop Mines, Chaffee County, Colorado

Please find enclosed eight copies of the subject Summary, Conclusions, and Recommendations by F. L. Everett, and H. T. Schasseberger and Engineering Report by Everett.

A. H. Koschmann has indicated that no U. S. Geological Survey report other than a memorandum will be submitted on the docket.

According to Everett, Calloway nor any of his associates are able to participate in an exploration loan and apparently the associates were not consulted. If that is not sufficient reason for denial of the loan, lack of equipment, slight likelihood of making an ore discovery of any consequence, and inexperience of the applicant should be.

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The brochure, review, and copies of the Senators letters submitted with the Field Team's instructions for examination are also enclosed. Evidently some of the data presented by the applicant contained in an envelope attached to the brochure should be returned to him. Your attention is called to your notation on the envelope.

W. M. Traver, Jr.

W. H. Traver, Jr.

enclosures
cc PTAllsman 7
AHKoschmann
DMA 2102
DMA Chron.

WHT

Mining Division
Region IV

November 26, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2102, A. B. Calloway, applicant; Saint Kay and Silver Crop Lead-Zinc Mine, Chaffee County, Colorado

The application of the subject docket was for an exploration loan of $33,964.00.

The proposed exploration program consists of the rehabilitation of a 10-foot winze, sinking an additional 150 feet, and driving 300 feet raises.

The deposit consists of a strong quartz-calcite vein in intrusive quartz-monzonite porphyry. The vein varies in width from a few inches up to 3 feet. Mineralization consists of disseminated sphalerite and pyrite, but the vein is mostly barren of base metals.

Past production between 1880 and 1890 was mainly silver ore. A sample of sorted ore taken by an engineer of the Bureau of Mines in 1940 assayed 0.06 ounces of gold and 37.4 ounces of silver per ton, 0.23 per cent copper, 5.75 per cent lead, 16.5 per cent zinc, and less than 0.01 per cent antimony.

A. B. Calloway has only about one-third interest in the property, and submitted the application without consulting his partners, and is unable to participate in an exploration loan.

Due to the facts that the geological probability of discovery of commercial base metal ores is not favorable and that the applicant cannot participate in the exploration, the examining team recommends denial of the application, with which we concur.

A letter of denial has been sent to the applicant.

W. H. King, for
F. E. Allanson

WHKsfpe
cc: Permanent, Subj., Chron

224 New Customhouse
Denver 2, Colorado

December 6, 1951

Mr. A. B. Calloway
P. O. Box 191
Buena Vista, Colorado

Dear Mr. Calloway:

As requested in your postal card of December 3, we are enclosing a copy of the assay certificate which we failed to return with your application.

Yours very truly,

P. T. Allman, for
J. H. Batt, Jr., Executive Officer
DMA Field Team, Region IV

Enclosure

PTA:ld

cc: DMA docket, chron.
Kosolumon

Form 6-55

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 12/5/51

REFERRED TO:

1. Allsman
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: Card from A. B. Calloway, DMA 2102, requesting assay report omitted from data sent to him 11/26/51. (Dma

Copy of letter to Calloway & missing assays attached.)

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

Buena Vista, Colo. Box 191. — 12-3-51.

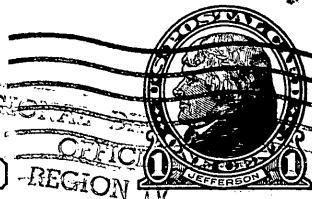
Mr. East :—

This is acknowledgment of receipt of all data on Swiss-Boy-mine, Except, the very important assay-report on same, which was sampled & assayed by U.S. Bureau Mines Geologist of Salt Lake City - with-out-fail, I demand return of this report, which is in your office. Sincerely - A.B. Calloway.

COLORADO SPRINGS
DEC 4
8 30 PM
1951

THIS SIDE OF CARD IS FOR ADDRESS

REGIONAL
OFFICE
REGION IV
DEC 5 1951
BUREAU OF MINES
DENVER COLORADO



Mr. J. H. East, Jr.,
224 New Customhouse,
Denver, 2, Colorado

224 New Customhouse
Denver 2, Colorado

October 18, 1951

Memorandum

To: W. M. Traver, Jr. (with brochure)

(Through Chief, Mining Division, Region IV)

A. H. Koschmann

From: DMA Field Team, Region IV

Subject: DMA Docket 2102, A. B. Calloway, applicant, Swiss Boy and Silver Crop Lead-Zinc Mines, Chaffee County, Colo.

Enclosed herewith is the brochure of the subject docket consisting of the following documents.

1. Form MF-103, April, 1951 - Application for aid for an Exploration Project of $33,964.00.

2. Review by Coordinating Committee.

3. Letter to DMA from Senators Johnson and Millikin.

4. Reply from DMA.

5. Copy of our letter to Mr. Calloway of October 11, 1951.

6. Mr. Calloway's reply of October 16, with Patent No. 30888, and topographic sheet of the Mount Elbert Quadrangle.

The proposed project requires a field examination to determine the geological probability of discovering and the feasibility of the project. Some of the proposed work is not applicable under MO-5, and the applicant has not satisfactorily replied to Item 9 of Form MF-103.

allbert for Paul Allbert
J. H. East, Jr.

Orden Tweto
for A. H. Koschmann

Enclosure
WDM:oj
cc: DMA subject, chron.
AHKoschmann

Allaman

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 10/17/51

REFERRED TO:

1. ~~Allsman~~
2. Mr Millar
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record
..... Comment	..... of
..... Conference	..... Referring
..... Consideration	..... to
..... Filing	..... Reply for signature of
..... Instructions	.....
..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

It looks as though we put some to field for completion of requirements that pay.

REMARKS: Letter from A. B. Callaway, DMA 2102, Swiss Boy Mine, ---additional information on application for loan.

Check (X) before the items needing attention.

JHE
Initials of sender.

GPO 16—51162-1

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 10/9/51

REFERRED TO:

1. ~~Alleman~~
2. Mc Millan
3.
4.

FOR:

..... Action	..... Recommendation
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..... Investigation	..... Rewriting
..... Initials	..... Signature
..... Mailing	..... Suggestions
..... Previous correspondence	..... Your information

REMARKS: Brochure, DMA 2102, A. B. Calloway, 528 W. Platte, Colo. Spgs, Colo., Location: Chaffee County, Colo., Silver Boy & Silver Crop Mines, Lead-Zinc, Total: $33,964.00, Gov't. Par: 75%.

Check (X) before the items needing attention.

JHE
Initials of sender.

GPO 16—51162-1

DMA

OCT 4 1951

Re: DMA-2102

Mr. A. B. Calloway
52[illegible] . Platte
Colorado Springs, Colorado

Dear Mr. Calloway:

Your application for an exploration loan on property located in Chaffee County, Colorado, which was transmitted to us by Senators Johnson and Milliken, has been reviewed by the Defense Minerals Administration.

Further information is required before we can make a complete appraisal of your application. For this purpose, we have forwarded it to Mr. J. H. East, Jr. Executive Officer, GSA Field Team, 724 New Customhouse, Denver 2, Colorado for additional data.

Very truly yours,

SIGNED
Tom Lyon, Director
Supply Division

BLNewcomb:emp
10-1-51 G
Copies to: J. H. East, Jr. Region IV (2)
E. T. McKnight 4204 GSA
Chief, Lead-Zinc Br.
O. H. Bishop
Directorsr. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

OCT 4 1951

Re: DMA-2102

OFFICE
DIRECTOR IV
1951

Mr. A. B. Calloway
528 E. Platte
Colorado Springs, Colorado

Dear Mr. Calloway:

Your application for an exploration loan on property located in Chaffee County, Colorado, which was transmitted to us by Senators Johnson and Milliken, has been reviewed by the Defense Minerals Administration.

Further information is required before we can make a complete appraisal of your application. For this purpose, we have forwarded it to Mr. J. H. East, Jr. Executive Officer, DMA Field Team, 224 New Customhouse, Denver 2, Colorado for additional data.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

ELNewcomb:emp
10-1-51 G
Copies to: J. H. East, Jr. Region IV (2)
E. T. McKnight 4204 GSA
Chief, Lead-Zinc Br.
O. M. Bishop
Directorsr. files 4214 GSA
Br. r. files 4214 GSA
Administrators r. file
DMA docket files

MF-200
(April 1951)

Docket No. DMA _____
Commodity _____

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this _____ day of _____, 195__, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] A.B. Calloway, Doris Love and W.J. Rice party of the second part and joint owners of the Swiss Boy and Silver Crop lodes. hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Colorado, County of Chaffee described as follows: [3] Embracing portion of Sec.22 T 12 south, Rg. 81 W, 6 P.M. La Plata mining dist. or 1 mile north by north east of Winfield, on Clear Creek with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached: None

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within twenty days from the date of this contract shall commence work on a project of exploration for [5] strategic metals; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] two years from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Attached hereto, marked "Exhibit 'B'," is a detailed list of additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute its agreed pro-rata share of the cost. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

6. *Operating equipment.* Attached hereto, marked "Exhibit 'C'," is a detailed list of operating equipment divided into categories of items to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or rental value, as the case may be, annexed to each. As to equipment purchased for the project, the Government will contribute its agreed pro-rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* Attached hereto, marked "Exhibit 'D'," is an itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project.

9. *Rehabilitation and repairs.* Attached hereto, marked "Exhibit 'E'," is a detailed schedule of existing facilities, buildings, installations, and fixtures, with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition, which cost shall be allowed as a cost of the project.

10. *Allowable costs of the project.* The allowable costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in the contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, or any other indirect costs not expressly allowed by these regulations, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Participation by the Government.* At the end of the first full calendar month after the Operator has commenced work under the project, and at the end of each succeeding calendar month, the Operator shall submit to the Government a voucher for payment with a detailed statement of work done and allowable costs (as defined in Article 10 of this agreement) incurred, in a form and with supporting data acceptable to the Government. After approving the voucher, the Government shall pay to the Operator ..... percent of the sum of such costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $....., which is ..... percent of the agreed estimated total cost of this project, $.....

12. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

13. *Progress reports.* The Operator shall provide the Government with monthly reports of progress in form and content satisfactory to the Government, and upon the completion of the project or termination of the contract shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

14. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent additional for each full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the property which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

15. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

16. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in triplicate the day and year first above written.

THE UNITED STATES OF AMERICA

.....
(Operator)

By .....

By .....

U. S. GOVERNMENT PRINTING OFFICE 16—64066-1

224 New Customhouse
Denver 2, Colorado

June 19, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2102, (Lead-Zinc) Swiss Boy and Silver Crop Mines, Chaffee County, Colorado

Attached are four copies of the final report on DMA-2102.

The application was denied November 26, 1951.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

HMC:oc

cc: Contract, Chron.
Koschmann (2)

OFFICE OF THE ADMINISTRATOR

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

Mining Division
Region IV

November 26, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 2102, A. B. Calloway, applicant; Swiss Boy and Silver Crop Lead-Zinc Mine, Chaffee County, Colorado

The application of the subject docket was for an exploration loan of $33,964.00.

The proposed exploration program consists of the rehabilitation of a 10-foot winze, sinking an additional 150 feet, and driving 300 foot raises.

The deposit consists of a strong quartz-calcite vein in intrusive quartz-monzonite porphyry. The vein varies in width from a few inches up to 3 feet. Mineralization consists of disseminated sphalerite and galena, but the vein is mostly barren of base metals.

Past production between 1880 and 1890 was mainly silver ore. A sample of sorted ore taken by an engineer of the Bureau of Mines in 1949 assayed 0.06 ounces of gold and 37.4 ounces of silver per ton, 0.23 per cent copper, 5.75 per cent lead, 16.5 per cent zinc, and less than 0.01 per cent antimony.

A. B. Calloway has only about one-third interest in the property, and submitted the application without consulting his partners, and is unable to participate in an exploration loan.

Due to the facts that the geological probability of discovery of commercial base metal ores is not favorable and that the applicant cannot participate in the exploration, the examining team recommends denial of the application, with which we concur.

A letter of denial has been sent to the applicant.

W. H. King

W. H. King, for
P. T. Allsman

Mining Division
Date Rec'd.
NOV 19 1951
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
DENVER, COLORADO

Region IV

Building 20
Denver Federal Center
November 16, 1951

Memorandum

To: Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division

Subject: DMA-2102, Swiss Boy and Silver Crop Mines, Chaffee County, Colorado

Please find enclosed eight copies of the subject Summary, Conclusions, and Recommendations by F. D. Everett, and H. T. Schassberger and Engineering Report by Everett.

A. H. Koschmann has indicated that no U. S. Geological Survey report other than a memorandum will be submitted on the docket.

According to Everett, Calloway nor any of his associates, are able to participate in an exploration loan and apparently the associates were not consulted. If that is not sufficient reason for denial of the loan, lack of equipment, slight likelihood of making an ore discovery of any consequence, and inexperience of the applicant should be.

I concur with Everett's recommendation that the request be denied.

The brochure, review, and copies of the Senators letters submitted with the Field Team's instructions for examination are also enclosed. Evidently some of the data presented by the applicant contained in an envelope attached to the brochure should be returned to him. Your attention is called to your notation on the envelope.

W. M. Traver, Jr.

W. M. Traver, Jr.

enclosures

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-2102, Swiss Boy and Silver Crop Mines

Chaffee County, Colo.

F. B. Everett, Mining Engineer
Bureau of Mines

H. T. Schaaeberger, Geologist
U. S. Geological Survey

November 15, 1951

SWISS BOY AND SILVER CROP MINES
CHAFFEE COUNTY, COLO.
A. B. CALLOWAY, APPLICANT

Summary, Conclusions, and Recommendations

By F. D. Everett
Mining Engineer
Bureau of Mines

and

H. T. Schassberger
Geologist
U. S. Geological Survey

SWISS BOY AND SILVER CROP MINES
CHAFFEE COUNTY, COLO.
A. B. CALLOWAY, APPLICANT

SUMMARY, CONCLUSIONS, and RECOMMENDATIONS

By F. D. Everett and H. T. Schamberger

A. B. Calloway applied for a 75 percent Government participation exploration loan for $33,964.00 to raise and sink on the vein and to recover some rumored backfill zinc ore at the Swiss Boy and Silver Crop Mines, Chaffee County, Colo. The ore was reported to contain antimony. The property comprises two claims in the La Plata Mining District, 13 miles west of Granite, Colo.

The Swiss Boy tunnel was driven on a quartz-calcite vein in tertiary quartz monzonite porphyry. The Swiss Boy and a few other mines near Winfield, an abandoned mining camp a mile from the Swiss Boy, have yielded silver ores in the past, mainly before 1900. The only mineral observed was in a 4-inch wide vein which contained disseminated sphalerite and galena. A sample of the sorted high-grade ore taken from the shipping bin assayed less than 0.01 percent antimony.

The mine would have to be completely equipped. Calloway, who has 36.41 percent of the ownership of the claims, is the only one of three co-owners who has indicated any willingness to participate in an exploration loan on the property. Calloway stated he is financially unable to participate in either a 75 or 50 percent Government exploration loan.

The loan accordingly cannot be recommended for approval.

Engineering

SWISS BOY AND SILVER CROP MINES
CHAFFEE COUNTY, COLO.
A. B. CALLOWAY, APPLICANT

Engineering Report

By F. B. Everett
Mining Engineer
Bureau of Mines

SWISS BOY AND SILVER CROP MINES
CHAFFEE COUNTY, COLO.
A. B. CALLOWAY, APPLICANT

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ILLUSTRATIONS

Figure	Follows Page
1. Location map Swiss Boy and Silver Crop Mines	1

SWISS BOY AND SILVER CROP MINES
CHAFFEE COUNTY, COLORADO

ENGINEERING REPORT

By

F. B. Everett

INTRODUCTION

A. R. Calloway, 528 West Platte Street, Colorado Springs, Colorado, applied for a Defense Minerals Administration exploration loan, Docket 2102, for $33,964.00 or less, 75% percent Government participation, to rehabilitate, sink 150 feet of winze and drive 300 feet of raises. Part of the loan is to finance the work of tapping backfill ore in the discovery shaft. The ore values are in gold, silver, lead and zinc. Antimony is reported to occur and the 75 percent Government participating loan is based on this occurrence.

ACKNOWLEDGEMENTS

Mr. Calloway was very co-operative and courteous in showing his property. H. T. Schasberger, Geologist for the U. S. Geological Survey, accompanied the Bureau of Mines engineer on the examination.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property is 13 miles by road west of Granite, Chaffee County, Colorado in Sec. 28, T. 12 S., R. 81 W., 6th P.M. It is reached by traveling west up Clear Creek canyon on county road 170 branching from U. S. Highway 24 about 1 mile south of Granite. The property is in the La Plata Mining District (fig. 1).

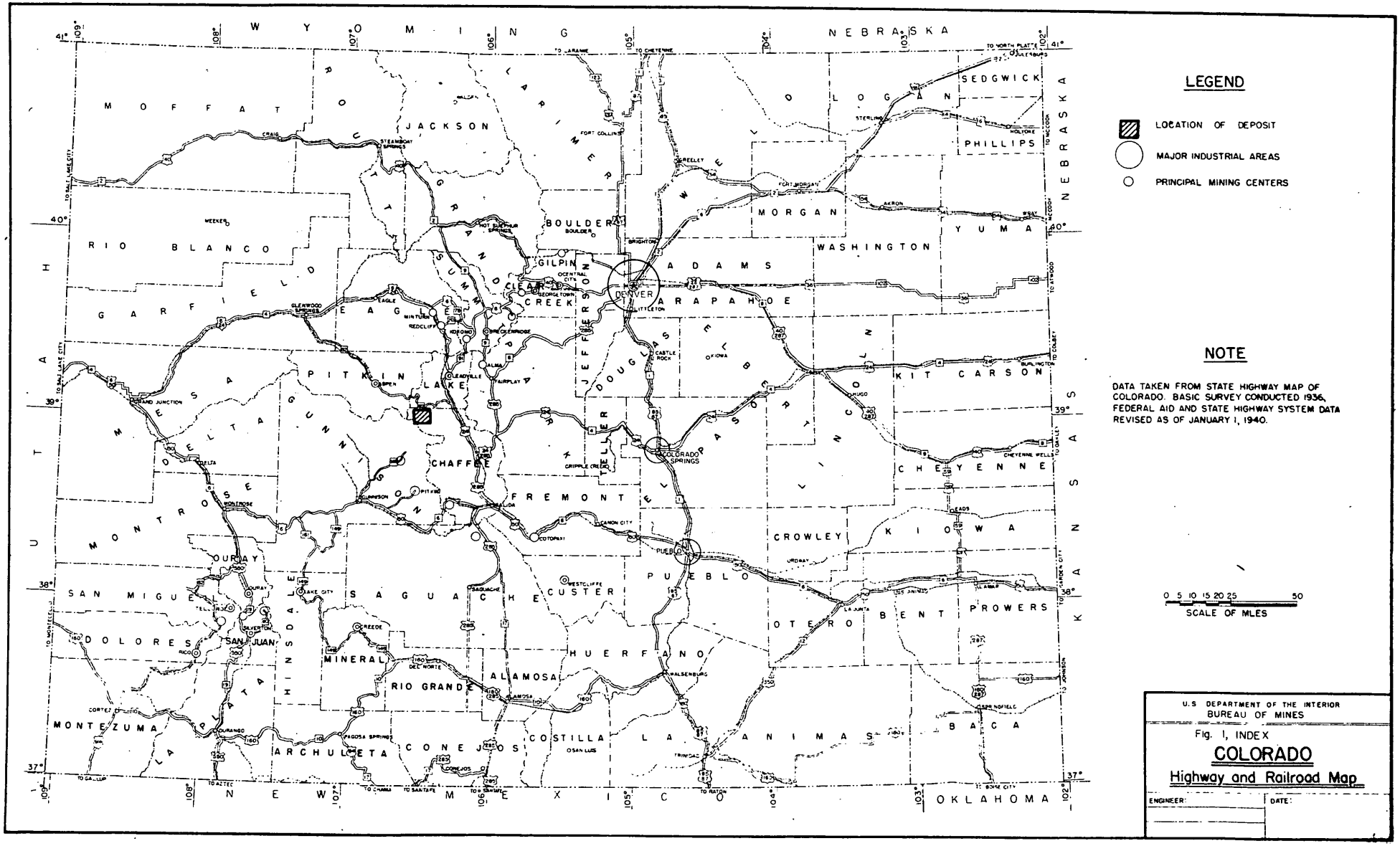

FIG. 1-LOCATION MAP, SWISS BOY & SILVER CROP MINES, CHAFFEE CO., COLO., D.M.A-2102

The county maintains the road up Clear Creek canyon to Winfield, an abandoned mining camp. Winter snow is removed for local ranches for 4 miles from U.S. Highway 24. The last mile of road is merely a rough trail which terminates about 300 feet vertically, and 800 feet on the slope from the Swiss Boy mine.

The property is in a rugged mountain area at an altitude of about 11,000 feet. The mine is about 800 feet above Clear Creek.

Leadville is 19 miles north of Granite on U.S. Highway 24.

HISTORY AND PRODUCTION

The property was reportedly worked between 1880 and 1890. Some work was reported in 1936 by the owner. The production has been from predominantly silver ore.

OWNERSHIP AND EXTENT

The property comprises two patented claims, the Swiss Boy, Survey No. 3303, and Silver Crop, Survey No. 3304. The property is owned as follows: 17/48 by A.B. Calloway, 29/48 by Dorus Torrey of Creede, Colorado, and 2/48 by W. J. Rice, Armington, Montana.

Although Calloway only owns 35.41 percent of the property, he applied for a loan without consulting the other two part owners. Calloway indicated that in his opinion neither of the other co-owners would be financially able or interested in participating in a DMA loan.

DESCRIPTION OF THE DEPOSITS

The deposit consists of a strong quartz-calcite vein in a tertiary intrusive quartz monzonite porphyry. The vein strikes about N. 20° E., dips 70° NW., and consists of quartz, calcite, crushed porphyry and gouge. In a raise the vein contained disseminated sphalerite and galena over a width of 4 inches. The vein varies from a narrow quartz stringer up to 3 feet in width and is mostly barren of metalliferous minerals. It was

mined principally for silver between 1880 and 1890.

Vein walls are firm and stand without timber. A sample of high-grade ore taken in 1949 by a Bureau of Mines engineer assayed 0.06 ounces of gold and 37.4 ounces of silver per ton, 0.23 percent copper, 5.75 percent lead, 16.5 percent zinc and less than 0.01 percent antimony. This sample was from selected ore stored in the ore bin.

No appreciable amounts of antimony could be expected.

ORE RESERVES

Calloway reports that some zinc ore was dumped in the old shaft and backfilled in old drifts off from the shaft in the early day mining operations. These workings are caved and inaccessible, but the amount of backfilled ore could not be great as indicated by the size of stopes above the Swiss Boy tunnel.

PRESENT STATUS

Exploration and Development

The development work consists of a discovery shaft with an unknown amount of drifting, Swiss Boy tunnel with about 550 feet of drifts and the Silver Crop tunnel which is 335 feet to a large cave. A shallow winze, probably less than 10 feet deep, which is filled with water, is below the old shaft in the Swiss Boy tunnel. Calloway reports good ore showing 4 feet down in this winze. The amount of any ore would be small. A raise which has been stoped for short distances on the vein near the Swiss Boy level, extends upward for about 80 feet. The raise has ladders for 30 feet.

Mining and Milling Equipment

The only mining equipment consists of one dilapidated mine car. The single bucket aerial tramway needs a gasoline motor. There is no milling

equipment. Milling facilities are available at Leadville, 19 miles north of Granite.

PROBEDT PROPOSALS, WITH COSTS

The applicant proposes to drive three raises, sink a winze, and recover ore ore rumored to be backfilled in the shaft, all from the Swiss Boy tunnel. The prospectruises would be launched where the vein branches or splits; the proposed locations are not based on any particular mineral occurrences. The chances for finding ore would be equally good by raising anywhere along the vein.

Sinking below the shaft and the raise, which have probably yielded a small amount of ore, appear to be the best exploration possibilities.

The backfilled ore in the old shaft probably would not warrant recovery as the mined silver ore generally occurs with the lead and zinc minerals. The zinc ore, although being unsaleable in the early days of mining, would have been difficult to separate from the silver ore.

New Equipment

The mine would have to be completely equipped.

Transportation

The access road from Clear Creek to the mine would have to be repaired. In addition a mile and a half of cartly road would have to be constructed to the Swiss Boy tunnel. An alternative would be reconstruction of the aerial tram.

Manpower

Any operation would require at least three men. Labor costs are $1.50 per hour. A. B. Calloway would supervise the work.

Power

NEA electric power is available.

Water

Water for mining could be collected in the mine or hauled from Clear Creek.

PROPOSED FINANCING

The applicant stated that he was unable to contribute anything to the project other than his interest in the property, the existing facilities, mine car, and his services.

CONCLUSIONS

The Swiss Boy mine has probably produced a small quantity of silver ore which contained lead and zinc minerals. The proposal by the applicant does not have a great deal of merit. The arrangement is not favorable for a loan in that only Galloway who owns about a third of the property submitted the application without consulting the other owners and he is unable financially to participate in a Defense Minerals Administration exploration loan.

RECOMMENDATIONS

The request for a $33,964.00 exploration loan for the Swiss Boy mine is not recommended for approval.