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DEFENSE MINERALS ADMINISTRATION
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To:	700	Date	6/29/54
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700

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

OCT 14 1954

Ching
Ellis
Hedges
Kilgaard
Selfridge
Johnson

C. A. Coppin, Orville Canfield,
and Charles Sanson, a partnership
Lovelock, Nevada

Re: Docket No. DMEA-3401 (Antimony)
Green Mine
Pershing County, Nevada

Gentlemen:

Your application for aid in an exploration project and other data available to us in Washington concerning your subject property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of ore on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/gla
10-11-54
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. Abbott Renik, Rm. 3624
T. H. Kiilsgaard, Rm. 5227
Code 700
Mr. Ching
DMEA Field Team, Region III (2)

Denial
Antimony - 3401
$10,500
Well documented

K

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

DOCKET COPY

Chiyo
Ellis

October 11, 1954

Summary of Proposed Project

Subject: Denial of application for an exploration project.

Docket No.: DMEA-3401

Applicant: C. A. Coppin, Orville Canfield and Charles Sansom, a partnership, Lovelock, Nevada

Commodity: Antimony

Property: The Green mine or the Green claim, owned by Applicants. Section 14, T. 25 N., R. 32 E., Wild Horse Mining District, Pershing County, Nevada.

Date of application: Undated- received in Washington June 28, 1954.

Amount of Application: $10,500.00.

Work proposed: Drive an adit, 250 feet long, under the present workings, then crosscut 100 feet. Estimated cost - 350 feet @ $30.00/ft. = $10,500.00.

Field Team Report: Dated September 8, 1954. Robert G. Reeves, USGS, and Frank J. Wiebelt, USBM.

The ore bodies are lenses and pods of jamesonite, stibnite, and pyrite sparsely distributed in fractures in a highly altered zone along a major northeast-trending fault in diorite. Individual pods are no more than three feet thick and 10 feet long.

The altered zone has been explored for 400 feet along the strike on the surface, and for 120 feet along the strike and 55 feet down the dip, underground. Production from the property since 1936 has been approximately 95 tons of 19.5% antimony ore.

The chances that the proposed exploration work would expose ore bodies larger than the small, erratically distributed ones of the upper levels of the mine appear remote. It is recommended that Government participation in the proposed exploration program be denied.

Commodity Committee Members' comments:

Geological Survey: E. L. Newcomb, September 30, 1954.

Although 3 assays indicate a favorable ore grade at the sample locations, the nature of the deposits and the limited amount of possible ore reserves indicate that DMEA assistance is not justified. Recommends that application be denied.

Bureau of Mines: Abbott Renick, October 5, 1954.

Inasmuch as a significant discovery is unlikely to result from further exploration, I concur with the Field Team and recommend this application be denied.

Michael Ching, DMEA, October 8, 1954.

The property has been operated sporadically over a considerable period of time and the underground workings are fairly extensive, but lessthan 100 tons of antimony ore has been produced since 1936. The nature of the ore occurrences indicates that, while small irregularly distributed ore bodies may be found by further exploration, the chances of a significant discovery are poor.

Conclusions and Recommendations:

The history of the property and the nature of the deposits indicate that further exploration on this property is not warranted. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

MChing/gla
cc to: Admr. Reading file
Operating Committee
Docket (original)
Code 700
Mr. Ching

10/6/54 ugla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

Defense Minerals Administration
RECEIVED
OCT - 6 1954

October 5, 1954

Re: DMEA-3401
C. A. Coppin
(Green Antimony Mine)
Pershing County, Nev.
$10,500 - Antimony

Memorandum

To: E. Wm. Ellis, Defense Minerals Exploration Administration

From: Abbott Renick, Base Metals Branch

Subject: Review of Field Team Report

The field examination report has recommended the applicant's proposal be denied.

Inasmuch as a significant discovery is unlikely to result from further exploration, I concur with the Field Team and recommend this application be denied.

Abbott Renick

Abbott Renick

10/4/54 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 1 1954

September 30, 1954

Re: DMEA-3401
C. A. Coppin
(Green Antimony Mine)
Pershing Co., Nev.
$10,500 - Antimony

Memorandum

To: E. Wm. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team report

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Although 3 assays indicate a favorable ore grade at the sample locations, the nature of the deposits and the limited amount of possible ore reserves indicate that DMEA assistance is not justified.

Mineralization occurs in pods and lenses, none of which exceed 10 feet in length, and larger deposits are unlikely to be found. Inasmuch as a significant discovery is unlikely to result from further exploration, I concur with the Field Team and recommend this application be denied.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

Defense Minerals Administration
RECEIVED
OCT - 1 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

September 30, 1954

Re: DMEA-3401
C. A. Coppin
(Green Antimony Mine)
Pershing Co., Nev.
$10,500 - Antimony

Memorandum

To: E. Wm. Ellis, Defense Minerals Exploration Administration

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E. L. Newcomb

ELNewcomb:hlm
G-9/30/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
A. Renick, 3624

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Defense Minerals
OCT - 1 1954

September 30, 1954

Re: DMEA-3401
C. A. Coppin
(Green Antimony Mine)
Pershing Co., Nev.
$10,500 - Antimony

Memorandum

To: E. Wm. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team report

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E. L. Newcomb

ELNewcomb:hlm
G-9/30/54

Copy to: Director's reading, 4212
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DMEA (3)
Dpcket file
A. Renick, 3624

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 1 1954

September 30, 1954

Re: DMEA-3401
C. A. Coppin
(Green Antimony Mine)
Pershing Co., Nev.
$10,500 - Antimony

Memorandum

To: E. Wm. Ellis, Defense Minerals Exploration Administration

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of Field Team report

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E. L. Newcomb

ELNewcomb:hlm
G-9/30/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
A. Reniek, 3624

9/22/54 gla

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

420 Custom House
555 Battery Street
San Francisco 11, Calif.

September 14, 1954

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3401 - Antimony
C. A. Coppin, et al.
Green Mine
Pershing County, Nevada

Reference is to your letter dated July 19, 1954, requesting an investigation of the subject property and our recommendations.

Attached are four copies of an examination report entitled "DMEA-3401, Green Antimony Mine, Pershing County, Nevada," by Robert G. Reeves, Geologist, U. S. Geological Survey, and Frank J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated September 8, 1954.

According to the report, work on the property has only indicated small lenses and pods of jamesonite, stibnite, and pyrite sparsely distributed in fractures in a highly altered zone along a major northeast-trending fault in diorite. The lenses and pods have not contained large tonnages of stibnite and the engineer and geologist are in agreement that further assistance for exploration with DMEA funds is not warranted.

Mr. Roscoe Smith and I concur with the recommendations of the geologist and engineer that the application should be denied.

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

Attachment

Copy to: Roscoe Smith, USGS

Reviewed by
DMEA OPERATING COMMITTEE
9-29-54
(date)

RECEIVED
SEP 20 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3401, Green Antimony Mine

Pershing County, Nevada

Robert G. Reeves, Geologist
U. S. Geological Survey

Frank J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

Sept. 8, 1954

Reviewed by
DMEA OPERATING COMMITTEE

9-29-54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3401 (Antimony)

Name and address of applicant: C. A. Coppin
Upper Valley
Lovelock, Nevada

Name and location of property: Green Mine, Pershing County, Nevada

SUMMARY

The Green antimony mine is 23.5 miles by road southeasterly of Lovelock, Nev.

The ore bodies are lenses and pods of jamesonite, stibnite, and pyrite sparsely distributed in fractures in a highly altered zone along a major northeast-trending fault in diorite. Individual pods are no more than three feet thick and 10 feet long. The property has produced about 95 tons of ore containing approximately 19.5 percent antimony.

The mine contains no measured ore reserves.

The applicant proposes to drive 250 feet of drift and 100 feet of crosscuts at an estimated cost of $10,500.

CONCLUSIONS AND RECOMMENDATIONS

The chances that the proposed exploration work would open up ore bodies larger than the small, erratically distributed ones of the upper levels of the mine appear remote. Work done since an examination in October 1939 by D. E. White [1/] has not resulted in significant ore dis-

1/ Unpublished report in files of the U.S. Geological Survey.

coveries that would change his conclusions that the future of the mine is poor and that any ore bodies would probably be small.

It is recommended that Government participation in the proposed exploration program be denied.

INTRODUCTION

The examiners, consisting of R. G. Reeves of the Geological Survey and Frank J. Wiebelt of the Bureau of Mines, spent Aug. 12 and 13, 1954 at the property. They were accompanied by the applicant C. A. Coppin, one of the owners of the Green mine.

NAME AND LOCATION OF PROPERTY

The Green mine is in the Wild Horse mining district, on the east slope of the Humboldt Range about 14 miles (airline) southeasterly of Lovelock, Nev. It lies in secs. 14 and 15, T. 25 N., R. 32 E. in Pershing County.

ACCESSIBILITY

The property is accessible by automobile by following the paved highway due south out of Lovelock, Nevada 8.7 miles, then turn left and go 6.8 miles, thence turn to the left and go 3.5 miles at which intersection keep to the right and go 1.8 miles and thence turn to the left and go 2.7 miles to the mine. The first 7.7 miles of the road leading out of Lovelock is a bituminous surfaced road and of the remainder of the road 13.1 miles are in fair condition and graveled and 2.7 miles are in poor shape. The

property is accessible throughout most of the year except during brief periods of heavy snowfall during the winter months.

COMPETENCY OF APPLICANT

The applicant, according to the application, has had considerable mining experience since 1915 and during World War II, he was superintendent of the Red Bird Quicksilver mine. He also has a gold mine of his own, which he works intermittently. He proposes to furnish the company's share of the proposed project costs by the use of equipment owned by him.

APPLICANTS' PROPERTY RIGHTS

The Green mine consisting of the Green claim is owned by a partnership consisting of the applicant C. A. Coppin, Orville Canfield, Charles Sansom, all of Lovelock, Nev.

DESCRIPTION OF PROPERTY

There are no surface facilities. Underground facilities consist of about 100 feet of rail and one ore car.

Surface workings (see fig. 2) consist of about 40 feet of trenching.

Underground workings (see fig. 3) include a 50-foot adit, a 68-foot adit, a 110-foot adit, and short crosscuts and raises.

SAMPLING

Two samples from the surface and two samples from the lower adit were taken by the field team. The location of the surface samples are shown in fig. 2 and those of the underground workings in fig. 3. Assay

data for the samples are as follows:

Sample No.	%, Pb	%, SB	Oz. Au/T	Oz. Ag/T	Location
1	3.9	1.20	0.01	0.70	Outcrop on top of hill.
2	0.6	21.50	0.025	16.20	6-inch wide vein in open cut in southwest end of surface workings.
3	2.4	32.95	0.07	14.25	Sample of ore in right side of floor - 12 feet from face of lower adit.
4	1.6	30.25	0.05	12.75	Sample of pod of ore in roof above sample No. 2.

GEOLOGY

The mine area is underlain by diorite in contact with slightly metamorphosed limestone.

The limestone is buff to gray in color, and close to the contact with the diorite, it contains quartz and a small amount of disseminated pyrite.

The diorite is gray-green, fine to medium-coarse grained rock; where fresh, it is composed mainly of light gray plagioclase and dark green pyroxene. The contact between the limestone and the diorite strikes north~~west~~ east across a saddle about 100 feet northwest of the mine workings (fig. 2). Lack of recrystallization or silication in the limestone suggests a fault contact.

The diorite is cut by a highly altered zone along what is suspected to be a major northeast-trending fault zone that dips from 40° to 50° south-

east. The altered zone extends from a point several hundred feet northeast of the mine workings to a point 1,500 to 2,000 feet southwest of the southernmost pit (4978; Sample No. 2). In the vicinity of the highly altered zone, the diorite is in places silicified, and in other places the ferromagnesian minerals are altered to chlorite and the plagioclase is darker gray. Within the zone alteration has completely destroyed pre-existing structures.

Locally, alteration is intense, and in the vicinity of the mine, slight alteration extends outward from the main zone for as much as 150 feet. The country rock is almost entirely altered to a yellow, brown, and white clay along the 5 to 15 foot zone of high alteration.

The antimony ore bodies are in the zone of intense alteration.

ORE DEPOSITS

From the size and distribution of the stopes, and the size and number of ore shipments, the ore bodies are lenses and pods of jamesonite and pyrite without accompanying gangue minerals sparsely distributed along fractures in the altered zone. Individual pods are no more than three feet thick and 10 feet long. They have been explored in surface cuts in several places for 400 feet along the strike of the altered zone, and underground,--in the Green mine-- for 120 feet along the strike and 55 feet down the dip.

The grade of 54 tons of ore shipped averaged 22-1/2 percent Sb.

In the upper levels the ore has been oxidized to antimony oxides and the lead-antimony oxide bindheimite, although some jamesonite is

found wherever a little ore was left. Gypsum in seams from 2 inches to almost a foot thick occurs along with pure white kaolin(?) associated with the oxidized ore. On the lower level some oxidation has taken place, but most of the ore occurs as jamesonite.

ORE RESERVES

There are no measured ore reserves. About half a ton of ore averaging 22 percent Sb is indicated in a pod on the 4,990 level at the site of samples No. 3 and No. 4. If it is assumed that unexplored parts of the altered zone contain ore bodies of the same size and grade as those that were mined, a few hundred tons of ore in small pods or bunches may be inferred above the altitude (4,915) of the proposed adit.

PAST OPERATION

According to a memorandum dated July 9, 1954 from E. L. Newcomb, geologist, U.S. Geological Survey to E. Wm. Ellis, DMEA, the property shipped a little ore in 1918, about 25 tons of 23 percent antimony ore in 1936, and 29 tons of 22 percent antimony in 1937.

Mr. R. B. Maurer, Chief, Mineral Industry Division, Region III, U.S. Bureau of Mines in a letter dated Aug. 2, 1954 to R. M. Smith, U.S. Geological Survey, reports the following data on shipments during the years 1952 and 1953:

Year	Dry Tons Ore	Gold (Oz.)	Silver (Oz.)	Lead (Lbs.)	Zinc (Lbs.)	Antimony (Lbs.)
1952	14	1	307	2,413	-	7,040
1953	23	0.46	168	1,015	461	4,245
do	4	0.099	103	1,001	not given	not given

MANPOWER, SUPPLIES, ETC.

Manpower, supplies and equipment are available from Lovelock, Nevada and Reno, Nevada. A power transmission line is about three miles distant from the mine. Sufficient water for mine use is available from a small spring, known as Wildhorse Spring, situated one-half mile from the mine.

APPLICANT'S PROPOSAL

The applicant proposes to drive a 250-foot drift and 100 feet of crosscuts at an elevation of about 100 feet below the lower level of the mine. The proposed adit drift would be driven from an unspecified location in the gully below the switchback in the lower road (100 feet east of the 1/4 corner) (fig. 2). The direction of the proposed adit is approximately that of the vein; however, the adit could be located so that, if the dip of the vein remains fairly constant, a minimum amount of crosscutting would be necessary. An adit, 250 feet long, would place the face of the adit under the present workings, and about 75 feet vertically below the lower (4,990) level.

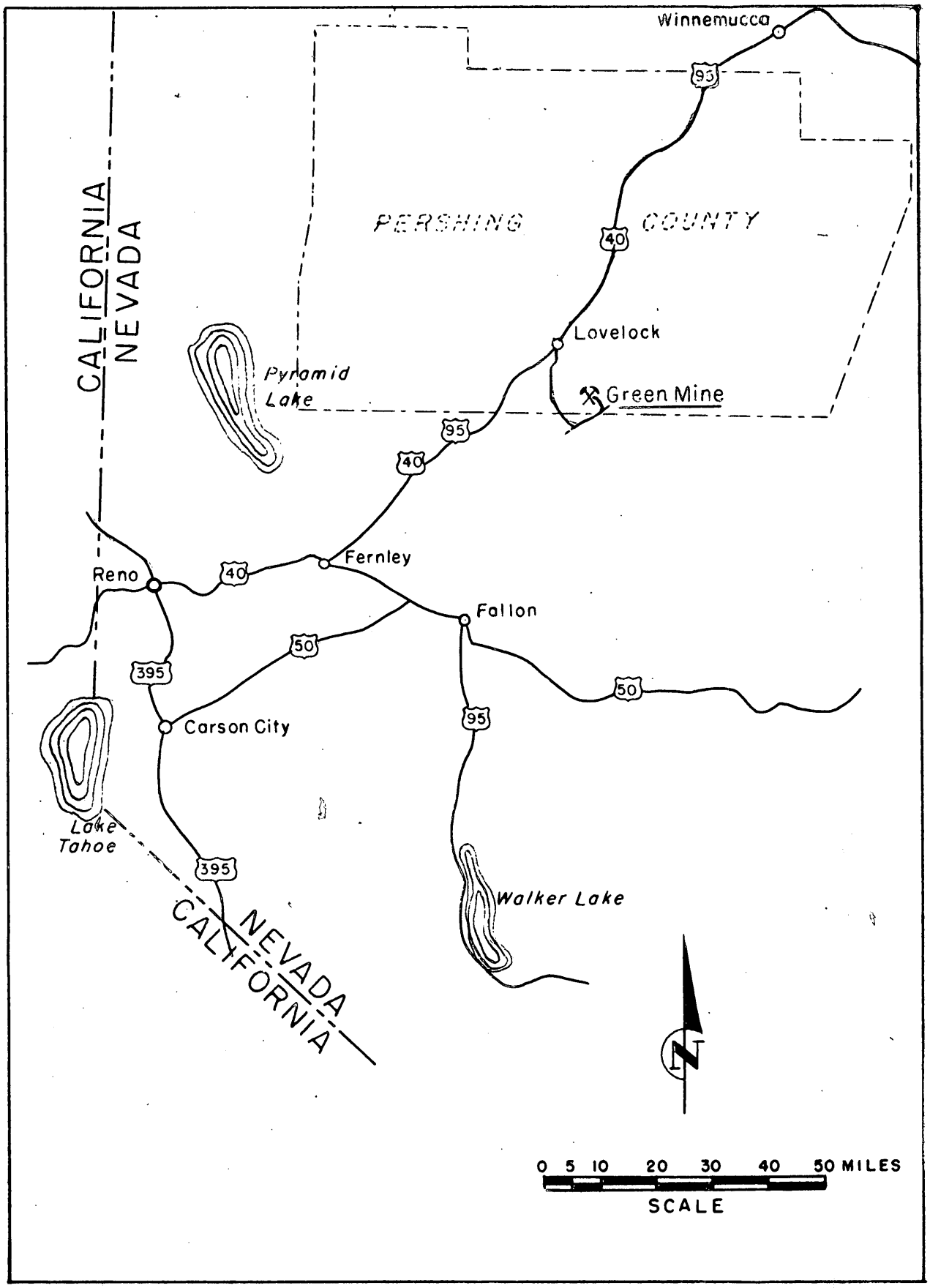
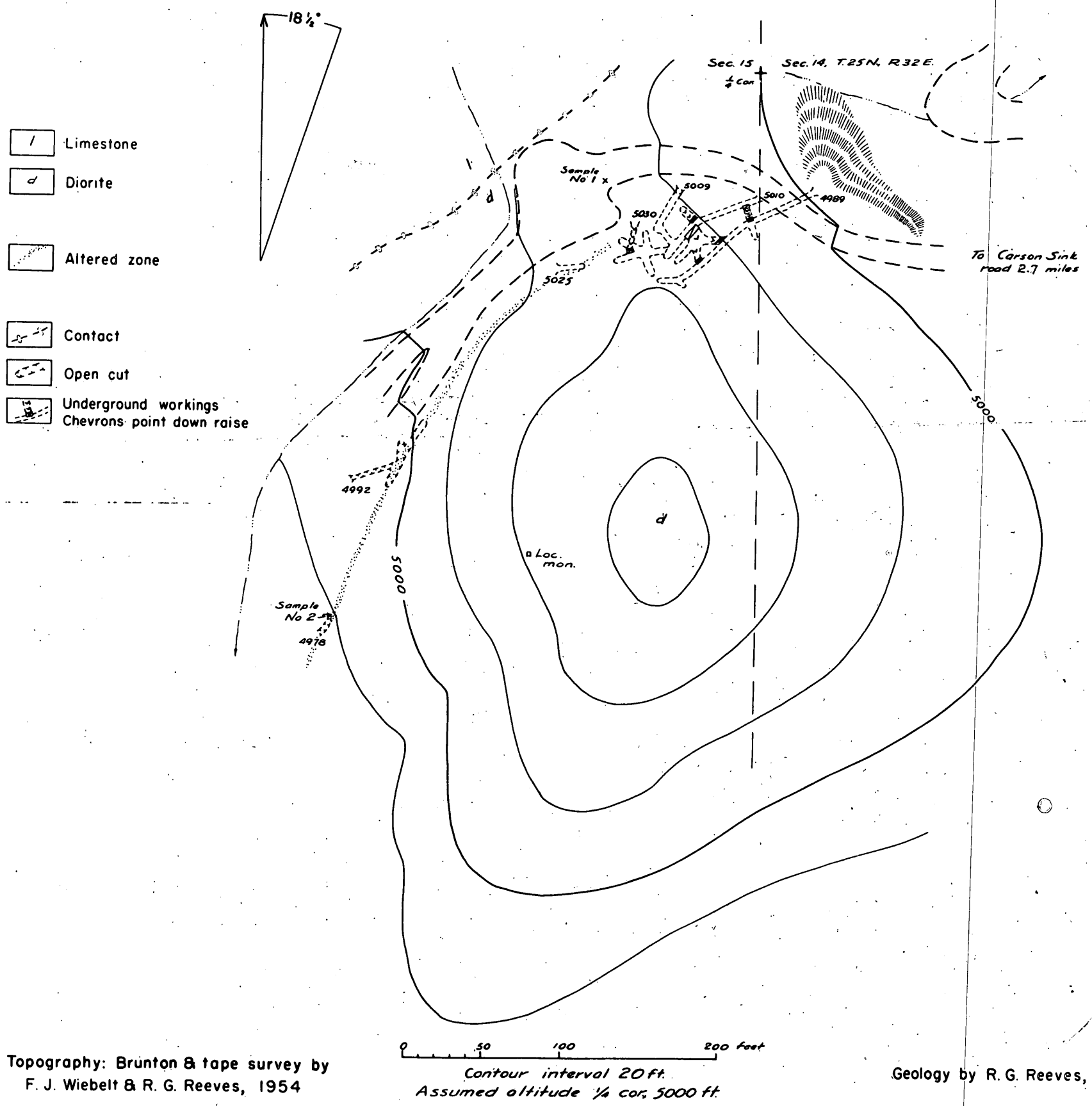


Figure 1.- Location map, Green antimony mine, Pershing County, Nevada.

U.S.B.M. & U.S.G.S.

D.M.E.A. 3401 ANTIMONY



Topography: Brunton & tape survey by F. J. Wiebelt & R. G. Reeves, 1954

Geology by R. G. Reeves, 1954

FIG. 2. GEOLOGIC SKETCH MAP, GREEN ANTIMONY MINE

PERSHING COUNTY, NEVADA

U.S.B.M. & U.S.G.S.

D.M.E.A. 3401 ANTIMONY

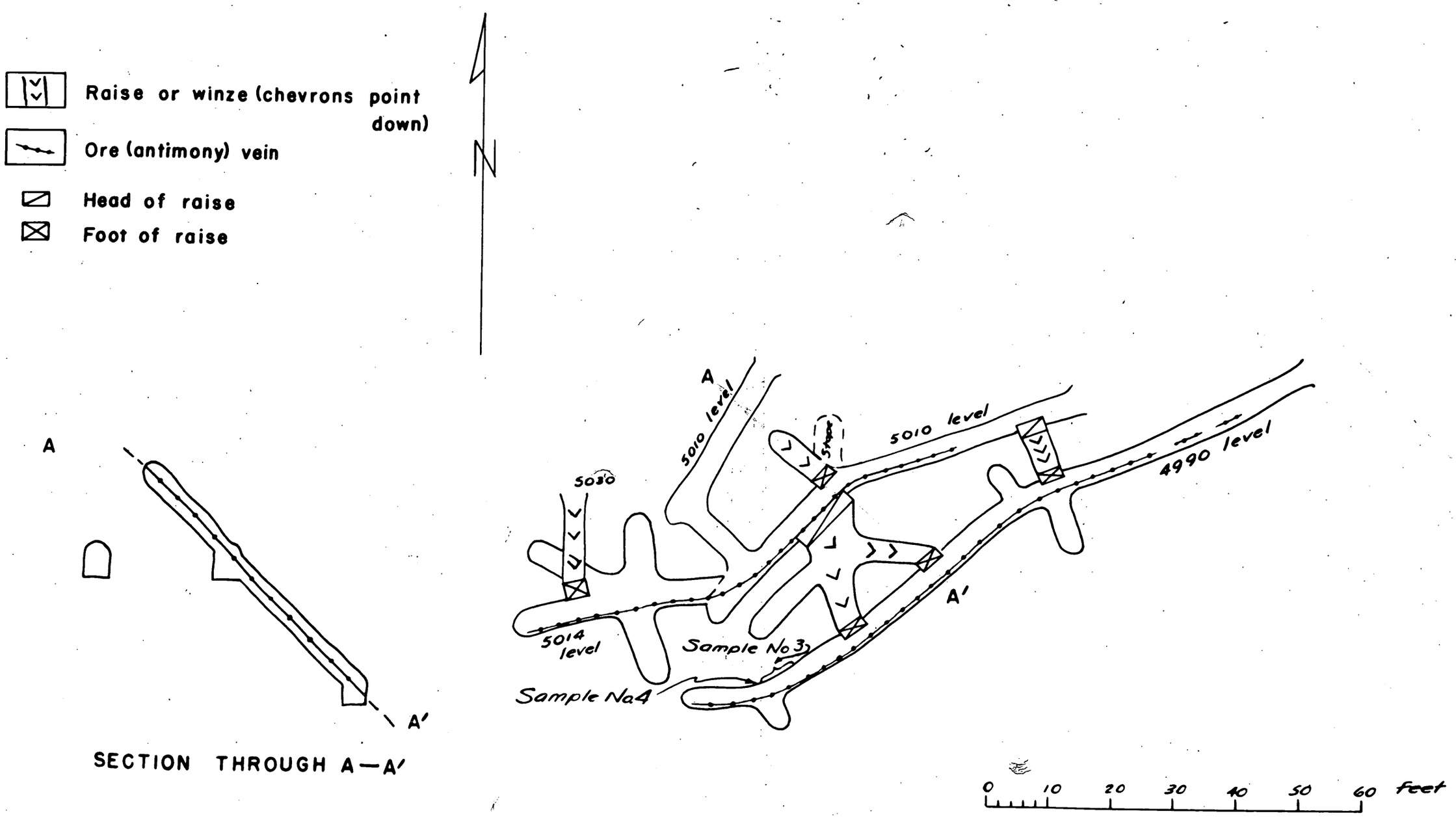


FIG. 3. MINE MAP AND SECTION, GREEN ANTIMONY MINE
PERSHING COUNTY, NEVADA

Surname
Docket copy

700

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

Ching
Newcomb
Ellis
Hedges
Guild
Selfridge
Johnson

JUL 19 1954

Mr. C. A. Coppin, et al.
Lovelock, Nevada

Re: Docket No. DMEA-3401 (Antimony)
Green Mine
Pershing County, Nevada

Dear Mr. Coppin:

The application for assistance in exploring your property, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination to the Executive Officer of Region III at the following address:

Mr. H. C. Miller
Executive Officer
DMEA Field Team, Region III
U. S. Bureau of Mines
420 Custom House
555 Battery Street
San Francisco 11, California

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

MChing/gla
7-14-54
cc to: Admr. Reading File
Docket
DMEA Field Team, Region III (2)
Code 700
M.Ching

R.S.J.

Surname
Docket copy

700

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

Ching
Newcomb
Ellis
Selfridge
Byrum
Matthews

Mr. H. C. Miller
Executive Officer
DMEA Field Team, Region III
U. S. Bureau of Mines
420 Custom House
555 Battery Street
San Francisco 11, California

JUL 19 1954

Re: Docket No. DMEA-3401 (Antimony)
C. A. Coppin, et al
Green Mine
Pershing County, Nevada

Dear Mr. Miller:

The subject application is being referred to you for investigation and recommendation. A copy of the application is already in your files.

Enclosed are two copies each of comments and recommendations relative to the application by Abbott Renick, Member, and E. L. Newcomb, Acting Member, Antimony Commodity Committee, dated June 30 and July 9, 1954, respectively.

You will note that Mr. Newcomb recommends that the application be denied. However, in a later discussion he agreed that a field examination is warranted in view of the more recent work performed by the Applicant.

Under 3(c) of the application the Applicant is described as part owner of the property. Therefore, it would be well to determine the full ownership of the property.

It is noted that an assay report, a settlement sheet, an Affidavit of Recording, and a Power of Attorney were to be returned to the Applicant when they have served their purpose. This will be done in due time, but the Applicant should be advised that a copy of the Power of Attorney would be required by us in the event a contract is recommended.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures 4

MChing/gla 7-14-54

cc to: Admr. Reading File
Operating Committee
Docket
Messrs. Abbott Renick, Rm. 3624
E. L. Newcomb, Rm. 5227
Code 700
M. Ching

DMEA Field Team, Region III

APPROVED:

J. H. Hedges
Member, Bureau of Mines (JHH)

Philip W. Guild
Member, Geological Survey (PWG)

R.C.S.

7/12/54 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

Colorado Minerals Administration
RECEIVED
JUN 14 1954

~~June~~ 9, 1954

Memorandum

To: Mr. E. Wm. Ellis, DMEA

From: E. L. Newcomb, USGS

Subject: Recommendation for denial

Re: DMEA-3401
Green Claim
Wild Horse District
Pershing County, Nev.
$10,500
Antimony

The applicant proposes to drive 350 feet of drifting and crosscutting to test for antimony mineralization beneath near surface mine workings.

The old workings consist of trenches, and several short adits which are within 25 feet of the surface.

According to records in our files, this property shipped a little ore in 1918, about 25 tons of 23 percent antimony ore in 1936, and 29 tons of 22 percent antimony ore in 1937.

Mineralization occurs in quartz diorite in a zone of brecciated, altered veins containing lenses and stringers of lead-antimony sulfide ore. Much of the sulfide material has been altered to oxides near the surface. The principal primary ore mineral is jamesonite. No stibnite is reported present, though other antimony and lead-antimony oxides occur near the surface of the deposit.

The ore grade of the mined area of the deposit is not known. However, the nature of the deposits indicates that any new ore bodies would be very small. Also the high lead content prevents the ore from being sold as a straight antimony ore.

A significant discovery of either lead or antimony reserves cannot reasonably be expected as a result of the proposed work.

I recommend this application be denied.

E. L. Newcomb

E. L. Newcomb
Geologist

7/1/54 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

June 30, 1954

DMEA - 3401
C.A. Coppin
The Green Mine - Antimony
Pershing County, Nevada
Exploration loan $10,500
Antimony

Memorandum

To: E. W. Ellis

From: Abbott Renick

Subject: Referral for Field Team Report.

The applicant provides a fair description of the mineral occurrence in which he indicates several antimony veins. In 1952, the applicant shipped about 14 tons of ore from the property, assaying about 25 percent antimony, 8 1/2 percent lead, and 22 ounces silver, per ton.

The Bureau of Mines (Washington, D.C.) does not have any information on file regarding this property. The writer believes that the property may be worth exploration, but it needs an examination to corroborate the applicant's interpretation. The docket should, therefore, be sent to the field with the request that an examination and recommendation be made.

Abbott Renick

Abbott Renick

Copy to Minerals Division
Base Metals Branch
Mr. Gildersleeve, Room 5223
F I L E S

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

June 29, 1954

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA - 3401 C. A. Coppin, et al.

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

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

June 29, 1954
Subject: DMEA-3401
Re: Exploration Assistance
Green Mine

Mr. C. A. Coppin, et al.
Lovelock
Nevada

Gentlemen:

The receipt of your application dated (undated) for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3401 and referred to the Rare and Miscellaneous Metals Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

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

420 Custom House
555 Battery Street
San Francisco 11, California

June 24, 1954

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for loan - Antimony
Green Mine
C. A. Coppin and partners
Pershing County, Nevada

Attached are three of the four copies of an exploration loan application received in this office on June 24, 1954.

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

Attachment

Copy to: R. M. Smith (USGS)

P.S. Supplemental information consisting of an assay report of Nevada Mining Analytical Laboratory, Affidavit of Recording and Power of Attorney, and U. S. Smelting and Refining and Mining Company settlement sheet dated June 16, 1952, was received after above was typed. The applicant requests that this material be returned to him when it has served your purpose.

HCM

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

420 Custom House
555 Battery Street
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MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3401
Metal or Mineral Antimony
Date Received
Estimated Cost $10,500
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: C. A. Coppin Lovelock, Nevada
Partnership with -
Orville Canfield Lovelock Nevada
Charles Sansom Lovelock, Nevada

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Green Claim located - Section 14 Twp. 25N Range 32 E in Wild Horse Mining District, Pershing County, Nevada

(*b*) State any mine name by which the property is known. Green Mine - Green Claim, Green Antimony Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise part owner with full power-of-attorney from partners to be manager.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it none

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.
Location Book 13 - page 166 Annual Work Book 7 page 278 File No 39477

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore ---antimony---

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within ---10--- days and be completed within ---12--- months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☑ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated ----------, 195---

(Applicant)

By ----------

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

C. A. Coppin
Lovelock, Nevada

4. Physical Discription

(a) Mining operations have put in about 40 feet of trenching, a 50 foot tunnel, a 68 foot tunnel, 110 foot tunnel and several short drifts and shafts. From these workings we took out 14 ton of antimony ore and shipped it to the smelter. It went about $70. per ton.

About 100 feet of rail and an ore car are now on the property. The road to the mine is fair. Twenty-one miles from Lovelock. The mine workings are open and in good condition for examinatio tion.

(b) There were several car loads of ore shipped from this property before we owned it. We do not have a record of this.

Past production as we know it is about $70. per ton in antimony and silver as shown on the enclosed smelter returns.

(c) Geologic features

Granite and lime with a hematite iron contact with characteristics of a blow-out. Ore comes in a series of veins containing antimony, galena and gangue materials. In the veins you hit bunches of rich ore with several tons in a bunch, then run a few feet thru barren vein and encounter other bunches of ore. These present workings are all near the surface. Workings not much over 25 feet deep.

It is our belief that by driving a tunnel that we can cut the ore bodies at least 100 feet down and that there will be rich ore at the contact. We have no geology reports or maps.

(d) Access road is in fair condition and graveled. It is 21 miles to Lovelock the shipping point. Lovelock is also the supply and residence point.

(e) Availability of manpower-plenty. Applicant has materials and equipment. Supplies can be purchased in Lovelock. Water- there is a small spring one half mile from the mine which could be used for drilling purposes and etc.

Power- gasoline compressors.

5 (b) Proposed work

It is proposed to drive 250 feet of straight tunnel and then cross cut each way to the lime-granite contact and also to the lime-hematite contact. This making a total of 350 feet of drifting as shown on the accompanying map sketch.

(d) C.A.Coppin, applicant will carry out and supervise operation He has been in the mining business off and on since he started to work for the ACM Co. in Butte in 1915. He has worked at every job in the mine from mucker to superintendent. During World WarII he was superintendent of the Red Bird Quicksilver Mine for the Harold's Club. He has a gold mine of his own that he works off and on. He has also been in the garage and service station business.

C. A. Coppin
Lovelock, Nevada

6(a) Independent contract: C.A.Coppin will do the 350 feet of drifting at $30. per foot, this to include all costs such as pipe, line tracks, timber where needed, etc. Total $10,500

(b)(c) included in total under 6(a) above.

(d) Operating equipment will be furnished by applicant. Consists of:

1	Ton and a half Ford Truck	Rental Value	$250. per mon.
1	315 Ingersol Rand Air Comp.	" "	310.
2	" " heavy drifters		

Drilling bars, arms, all necessary hoses, cars etc. $170.

The above is owned and will be furnished by C.A.Coppin.

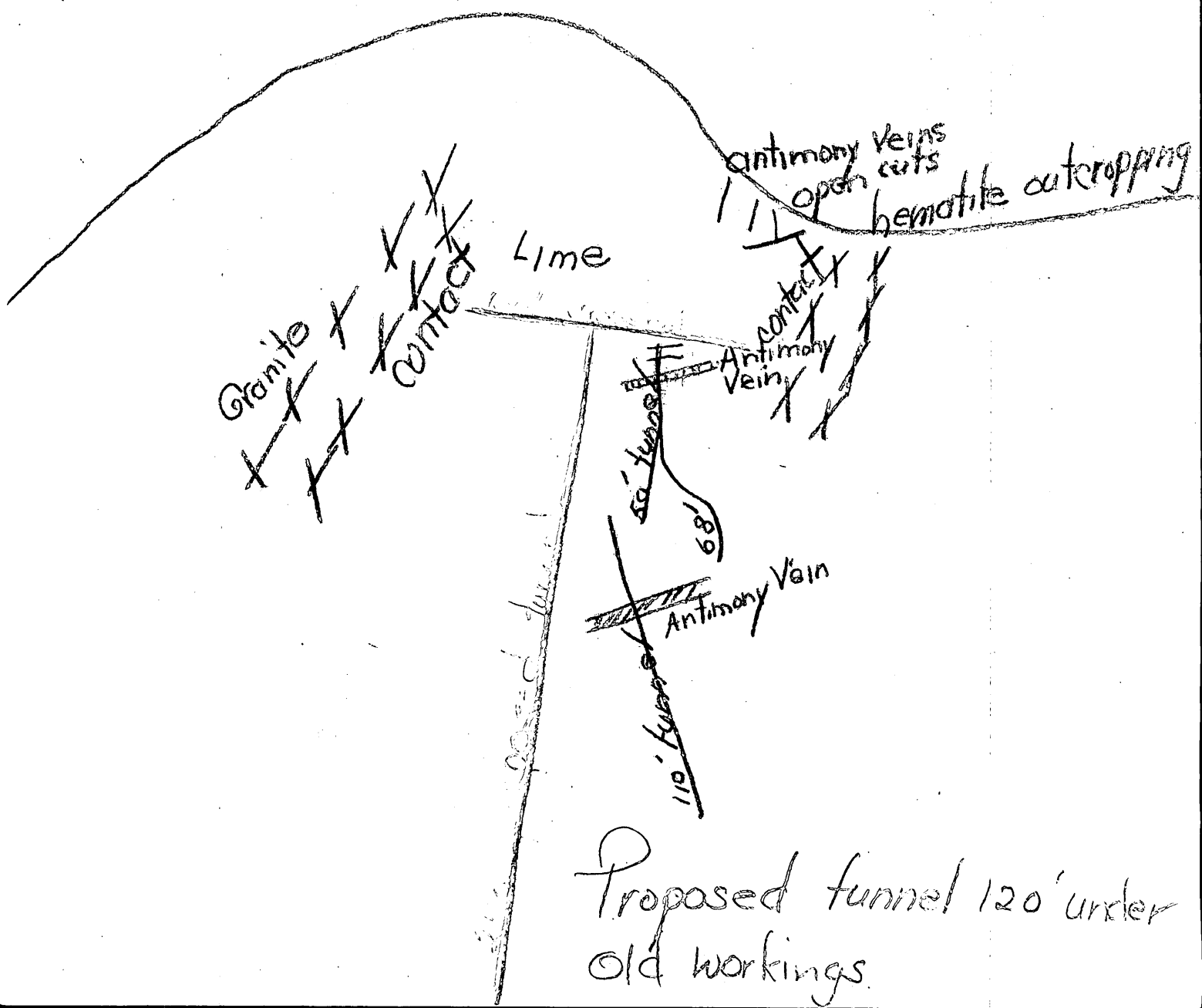
(e) none

(f) none

(g) included in 6 (a) total above.

(h) none

5(b)



NEVADA MINING ANALYTICAL LABORATORY
UNIVERSITY OF NEVADA
RENO, NEVADA

No. 467

Mr. C.A.Coppin
Lovelock, Nevada

Date April 16, 1954

Number	Mineral or rock	Ounces per Ton Gold	Silver		
1	Quartz,stibnite,pyrite,limonite	trace	23.2	Antimony	42.7%
				Lead	none

Signed by Claude W. Hammond
Analyst

Data taken from settlement sheet from USSmelter, Salt Lake City:

Oz. per ton Gold .035 Silver 21.60
Per cent - Lead 8.50 Iron 4.30 Sulphur 7.80 As. .10 Lime 4.10
Antimony 24.90 Insoluble 38.20

Gross value 84.21 Less working charges of 13.81 Payment at $70.40

14.196 ton less hauling charges netted $700.08

The above was sold to the United States Smelting Refining and Mining Co. of Salt Lake City in June 16, 1952 by Canfield, Sansom and Coppin all of Lovelock.

C. A. Coppin
Lovelock, Nevada

Form NMAL:2

NEVADA MINING ANALYTICAL LABORATORY

UNIVERSITY OF NEVADA

No. 467

RENO, NEVADA

Mr. C. A. Coppin

Lovelock, Nevada

Date April 16, 1954

Report on sample or specimen received from you on 1-14-54, is as follows:

Number	MINERAL OR ROCK	Ounces Per Ton		
		Gold	Silver	
1	Quartz, stibnite, pyrite, limonite.	trace	23.2	Antimony 42.7% Lead none
2	Pyrite, magnetite, quartz, calcite.	trace	none	Titanium dioxide none

Please return when thru with this

NOTE: Please return this material to sender.

By: Claude W. Hammond
Analyst.

The Laboratory very often receives a letter which does not state definitely what is desired on a given sample, or we may misunderstand a request, therefore in case we have not made the determination you desire or you want further information regarding these samples, please write within a month, and refer to the number of this report given above.

1470

TO WHOM IT MAY CONCERN:

We, Orville Canfield and Charles Sansom, co-partners with C.A.Coppin in the Green Antimony Claim ,Wild Horse Mining District, Pershing County, Nevada, hereby, give C.A.Coppin power-of-attorney to manage and to obtain loans or make any necessary arrangements he may see fit for the exploration of the Green Claim Mine,for the purpose Of opening ore bodies.

DATED JUNE 12 1954

Orville H Canfield
Orville Canfield

Charles W Sansom
Charles Sansom

STATE OF NEVADA,
County of PERSHING } ss.

On this 12th day of June A. D. one thousand nine hundred and fifty-four personally appeared before me CLARENCE L. YOUNG, a Notary Public in and for said County of PERSHING, ORVILLE H. CANFIELD and CHARLES W. SANSOM known (or proved) to me to be the persons described in and who executed the annexed instrument, who acknowledged to me that they executed the same, freely and voluntarily, and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at my office in the County of PERSHING, the day and year in this Certificate first above written.

CLARENCE L. YOUNG

Notary Public in and for the County of PERSHING, State of Nevada.

My commission expires My Commission Expires January 8, 1955

GENERAL—RENO PRINTING CO., RENO, NEVADA

7/30/54 gla

C
O
P
Y

420 Custom House
555 Battery Street
San Francisco 11, Calif.

September 14, 1954

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3401 - Antimony
C. A. Coppin, et al.
Green Mine
Pershing County, Nevada

Reference is to your letter dated July 19, 1954, requesting an investigation of the subject property and our recommendations.

Attached are four copies of an examination report entitled "DMEA-3401, Green Antimony Mine, Pershing County, Nevada," by Robert G. Reeves, Geologist, U. S. Geological Survey, and Frank J. Wisbelt, Mining Engineer, U. S. Bureau of Mines, dated September 8, 1954.

According to the report, work on the property has only indicated small lenses and pods of jamesonite, stibnite, and pyrite sparsely distributed in fractures in a highly altered zone along a major northeast-trending fault in diorite. The lenses and pods have not contained large tonnages of stibnite and the engineer and geologist are in agreement that further assistance for exploration with DMEA funds is not warranted.

Mr. Roscoe Smith and I concur with the recommendations of the geologist and engineer that the application should be denied.

s/ H. C. MILLER

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

Attachment

Copy to: Roscoe Smith, USGS

Reviewed by
DMEA OPERATING COMMITTEE
9/29/54
(date)

AFFIDAVIT OF RECORDING

STATE OF NEVADA,)
) ss.
COUNTY OF PERSHING)

THIS IS TO CERTIFY that the attached, consisting of one typewritten page, is a full, true and correct copy of a Power of Attorney of record in my office in Book 1, page 201, of POWER OF ATTORNEY, records of Pershing County.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my Official Seal this 21st day of June, A. D. 1954.

County Recorder in and for the County of Pershing, State of Nevada

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3401, Green Antimony Mine

Pershing County, Nevada

Robert G. Reeves, Geologist
U. S. Geological Survey

Frank J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

Sept. 8, 1954

Reviewed by
DMEA OPERATING COMMITTEE
9/29/54
(date)

EXAMINATION REPORT

Docket No.: DMEA-3401 (Antimony)

Name and address of applicant: C. A. Coppin
Upper Valley
Lovelock, Nevada

Name and location of property: Green Mine, Pershing County, Nevada

SUMMARY

The Green antimony mine is 23.5 miles by road southeasterly of Lovelock, Nev.

The ore bodies are lenses and pods of jamesonite, stibnite, and pyrite sparsely distributed in fractures in a highly altered zone along a major northeast-trending fault in diorite. Individual pods are no more than three feet thick and 10 feet long. The property has produced about 95 tons of ore containing approximately 19.5 percent antimony.

The mine contains no measured ore reserves.

The applicant proposes to drive 250 feet of drift and 100 feet of crosscuts at an estimated cost of $10,500.

CONCLUSIONS AND RECOMMENDATIONS

The chances that the proposed exploration work would open up ore bodies larger than the small, erratically distributed ones of the upper levels of the mine appear remote. Work done since an examination in October 1939 by D. E. White [1/] has not resulted in significant ore dis-

1/ Unpublished report in files of the U.S. Geological Survey.

coveries that would change his conclusions that the future of the mine is poor and that any ore bodies would probably be small.

It is recommended that Government participation in the proposed exploration program be denied.

INTRODUCTION

The examiners, consisting of R. G. Reeves of the Geological Survey and Frank J. Wiebelt of the Bureau of Mines, spent Aug. 12 and 13, 1954 at the property. They were accompanied by the applicant C. A. Coppin, one of the owners of the Green mine.

NAME AND LOCATION OF PROPERTY

The Green mine is in the Wild Horse mining district, on the east slope of the Humboldt Range about 14 miles (airline) southeasterly of Lovelock, Nev. It lies in secs. 14 and 15, T. 25 N., R. 32 E. in Pershing County.

ACCESSIBILITY

The property is accessible by automobile by following the paved highway due south out of Lovelock, Nevada 8.7 miles, then turn left and go 6.8 miles, thence turn to the left and go 3.5 miles at which intersection keep to the right and go 1.8 miles and thence turn to the left and go 2.7 miles to the mine. The first 7.7 miles of the road leading out of Lovelock is a bituminous surfaced road and of the remainder of the road 13.1 miles are in fair condition and graveled and 2.7 miles are in poor shape. The

property is accessible throughout most of the year except during brief periods of heavy snowfall during the winter months.

COMPETENCY OF APPLICANT

The applicant, according to the application, has had considerable mining experience since 1915 and during World War II, he was superintendent of the Red Bird Quicksilver mine. He also has a gold mine of his own, which he works intermittently. He proposes to furnish the company's share of the proposed project costs by the use of equipment owned by him.

APPLICANTS' PROPERTY RIGHTS

The Green mine consisting of the Green claim is owned by a partnership consisting of the applicant C. A. Coppin, Orville Canfield, Charles Sansom, all of Lovelock, Nev.

DESCRIPTION OF PROPERTY

There are no surface facilities. Underground facilities consist of about 100 feet of rail and one ore car.

Surface workings (see fig. 2) consist of about 40 feet of trenching.

Underground workings (see fig. 3) include a 50-foot adit, a 68-foot adit, a 110-foot adit, and short crosscuts and raises.

SAMPLING

Two samples from the surface and two samples from the lower adit were taken by the field team. The location of the surface samples are shown in fig. 2 and those of the underground workings in fig. 3. Assay

data for the samples are as follows:

Sample No.	%, Pb	%, SB	Oz. Au/T	Oz. Ag/T	Location
1	3.9	1.20	0.01	0.70	Outcrop on top of hill.
2	0.6	21.50	0.025	16.20	6-inch wide vein in open cut in southwest end of surface workings.
3	2.4	32.95	0.07	14.25	Sample of ore in right side of floor - 12 feet from face of lower adit.
4	1.6	30.25	0.05	12.75	Sample of pod of ore in roof above sample No. 2.

GEOLOGY

The mine area is underlain by diorite in contact with slightly metamorphosed limestone.

The limestone is buff to gray in color, and close to the contact with the diorite, it contains quartz and a small amount of disseminated pyrite.

The diorite is gray-green, fine to medium-coarse grained rock; where fresh, it is composed mainly of light gray plagioclase and dark green pyroxene. The contact between the limestone and the diorite strikes northwest across a saddle about 100 feet northwest of the mine workings (fig. 2). Lack of recrystallization or silication in the limestone suggests a fault contact.

The diorite is cut by a highly altered zone along what is suspected to be a major northeast-trending fault zone that dips from 40° to 50° south-

east. The altered zone extends from a point several hundred feet northeast of the mine workings to a point 1,500 to 2,000 feet southwest of the southernmost pit (4978; Sample No. 2). In the vicinity of the highly altered zone, the diorite is in places silicified, and in other places the ferromagnesian minerals are altered to chlorite and the plagioclase is darker gray. Within the zone alteration has completely destroyed pre-existing structures.

Locally, alteration is intense, and in the vicinity of the mine, slight alteration extends outward from the main zone for as much as 150 feet. The country rock is almost entirely altered to a yellow, brown, and white clay along the 5 to 15 foot zone of high alteration.

The antimony ore bodies are in the zone of intense alteration.

ORE DEPOSITS

From the size and distribution of the stopes, and the size and number of ore shipments, the ore bodies are lenses and pods of jamesonite and pyrite without accompanying gangue minerals sparsely distributed along fractures in the altered zone. Individual pods are no more than three feet thick and 10 feet long. They have been explored in surface cuts in several places for 400 feet along the strike of the altered zone, and underground--in the Green mine-- for 120 feet along the strike and 55 feet down the dip.

The grade of 54 tons of ore shipped averaged 22-1/2 percent Sb.

In the upper levels the ore has been oxidized to antimony oxides and the lead-antimony oxide bindheimite, although some jamesonite is

found wherever a little ore was left. Gypsum in seams from 2 inches to almost a foot thick occurs along with pure white kaolin(?) associated with the oxidised ore. On the lower level some oxidation has taken place, but most of the ore occurs as jamesonite.

ORE RESERVES

There are no measured ore reserves. About half a ton of ore averaging 22 percent Sb is indicated in a pod on the 4,990 level at the site of samples No. 3 and No. 4. If it is assumed that unexplored parts of the altered zone contain ore bodies of the same size and grade as those that were mined, a few hundred tons of ore in small pods or bunches may be inferred above the altitude (4,915) of the proposed adit.

PAST OPERATION

According to a memorandum dated July 9, 1954 from E. L. Newcomb, geologist, U.S. Geological Survey to E. Wm. Ellis, DMEA, the property shipped a little ore in 1918, about 25 tons of 23 percent antimony ore in 1936, and 29 tons of 22 percent antimony in 1937.

Mr. R. B. Maurer, Chief, Mineral Industry Division, Region III, U.S. Bureau of Mines in a letter dated Aug. 2, 1954 to R. M. Smith, U.S. Geological Survey, reports the following data on shipments during the years 1952 and 1953:

Year	Dry Tons Ore	Gold (Oz.)	Silver (Oz.)	Lead (Lbs.)	Zinc (Lbs.)	Antimony (Lbs.)
1952	14	1	307	2,413	-	7,040
1953	23	0.46	168	1,015	461	4,245
do	4	0.099	103	1,001	not given	not given

MANPOWER, SUPPLIES, ETC.

Manpower, supplies and equipment are available from Lovelock, Nevada and Reno, Nevada. A power transmission line is about three miles distant from the mine. Sufficient water for mine use is available from a small spring, known as Wildhorse Spring, situated one-half mile from the mine.

APPLICANT'S PROPOSAL

The applicant proposes to drive a 250-foot drift and 100 feet of crosscuts at an elevation of about 100 feet below the lower level of the mine. The proposed adit drift would be driven from an unspecified location in the gully below the switchback in the lower road (100 feet east of the 1/4 corner) (fig. 2). The direction of the proposed adit is approximately that of the vein; however, the adit could be located so that, if the dip of the vein remains fairly constant, a minimum amount of crosscutting would be necessary. An adit, 250 feet long, would place the face of the adit under the present workings, and about 75 feet vertically below the lower (4,990) level.

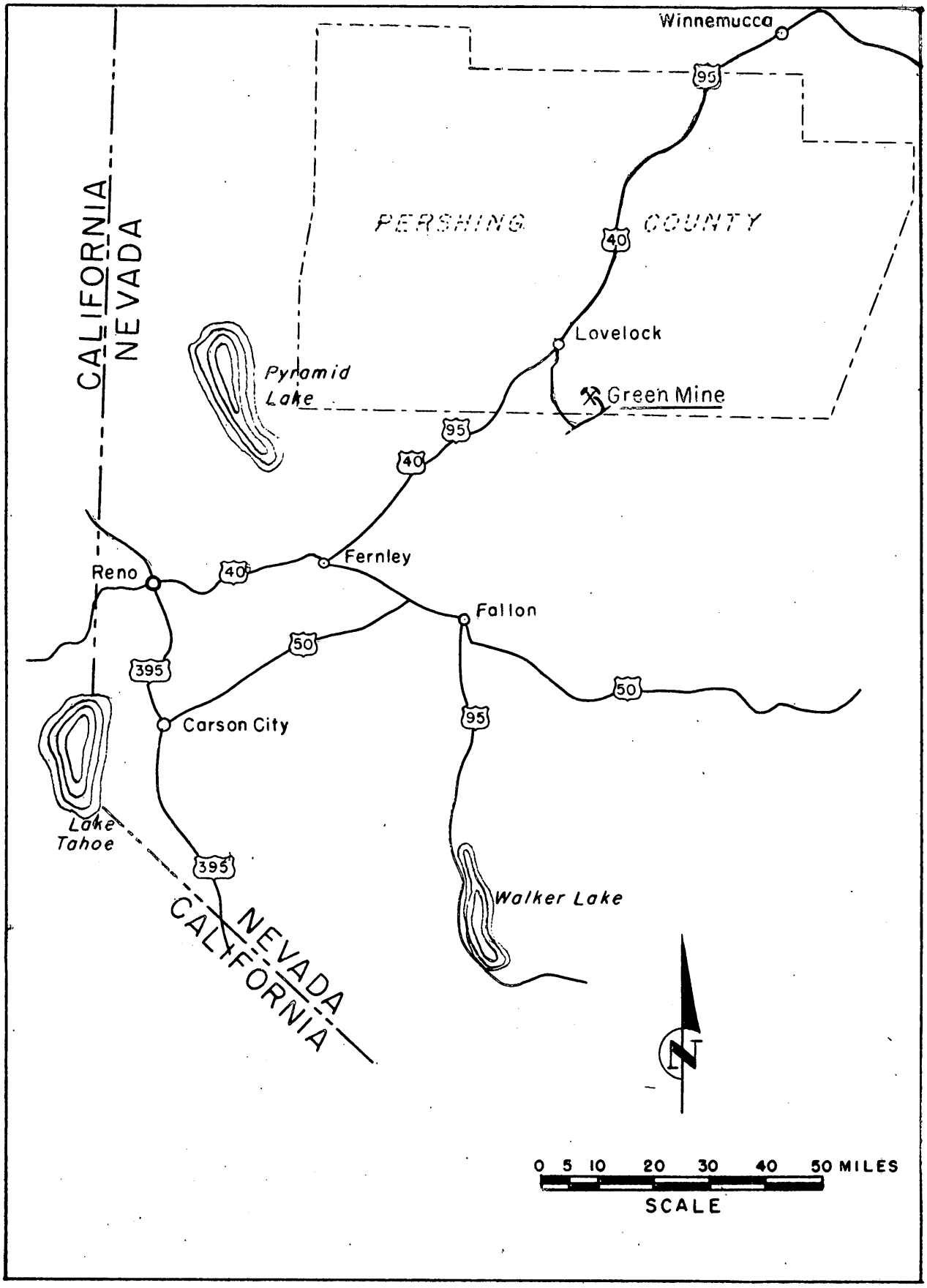
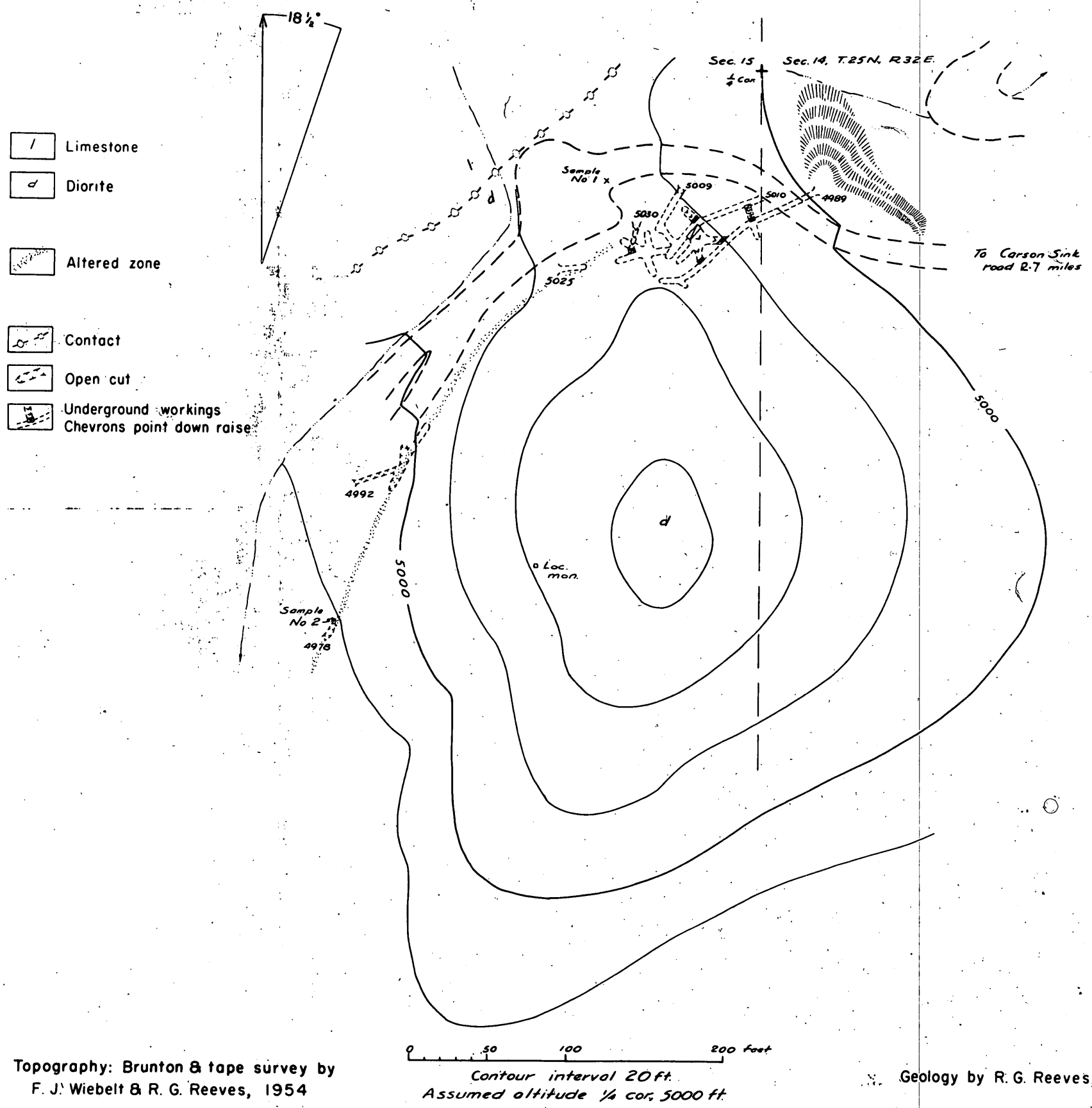


Figure 1.- Location map, Green antimony mine, Pershing County, Nevada.

U.S.B.M. & U.S.G.S.

D.M.E.A. 3401 ANTIMONY



Topography: Brunton & tape survey by F. J. Wiebelt & R. G. Reeves, 1954

Geology by R. G. Reeves, 1954

FIG. 2. GEOLOGIC SKETCH MAP, GREEN ANTIMONY MINE

PERSHING COUNTY, NEVADA

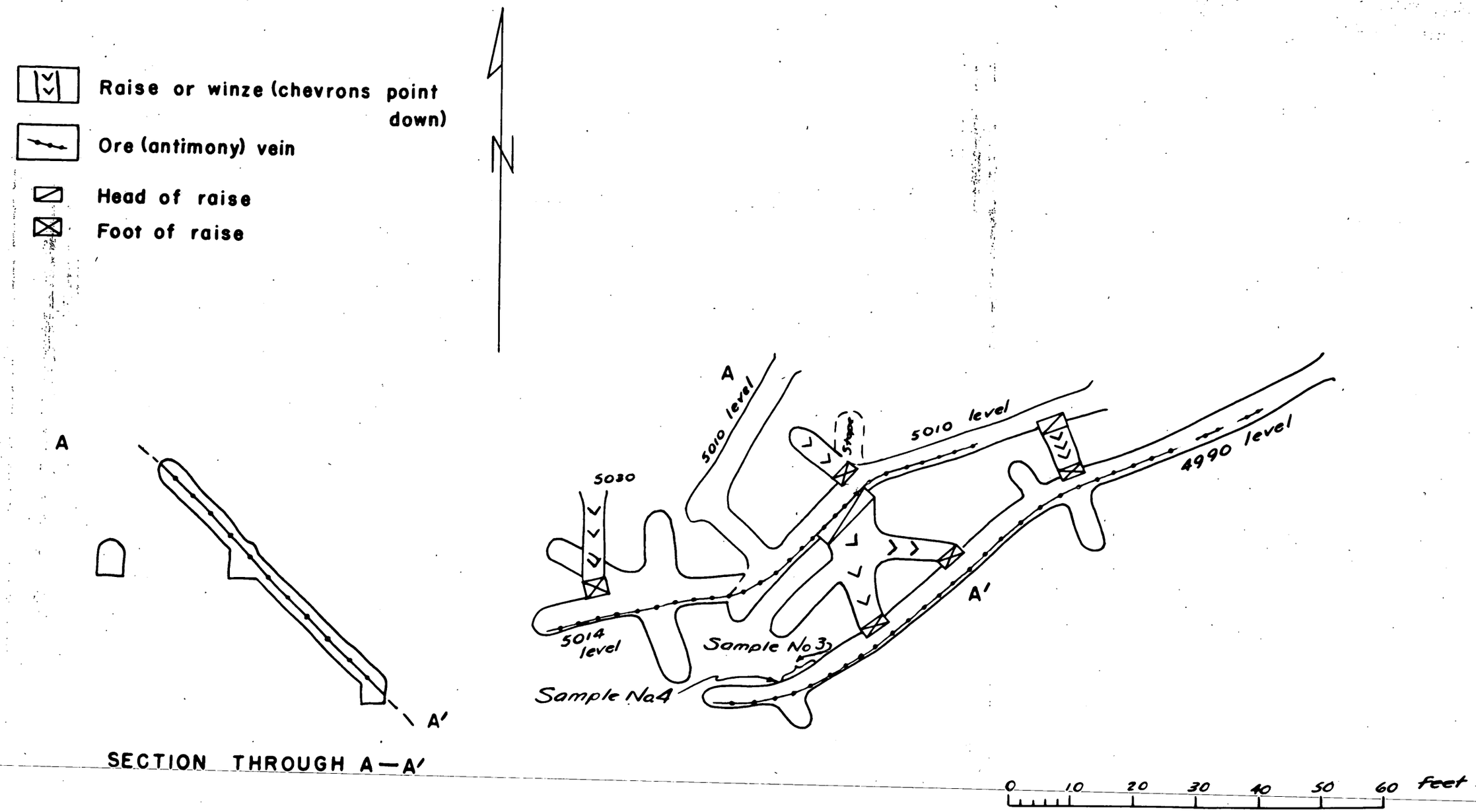


FIG. 3. MINE MAP AND SECTION, GREEN ANTIMONY MINE
PERSHING COUNTY, NEVADA

Returned by U.S.B.M with Comments

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3401
Metal or Mineral ANTIMONY
Date Received
Estimated Cost $10,500
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: C. A. Coppin Lovelock, Nevada
Partnership with -
Orville Canfield Lovelock, Nevada
Charles Sansom Lovelock, Nevada

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Green Claim located Section 14 Twp. 25 N Range 32 E. in Wild Horse Mining District, Pershing County, Nevada

(*b*) State any mine name by which the property is known. Green Mine - Green Claim - Green Antimony Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise part owner with full power-of-attorney from partners to be manager.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it none

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.
Location - Book 13 - page 166 Annual Work Book 7 page 278 File No 39477

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Antimony

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 10 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☑ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated _____, 195__

_____ (Applicant)

By _____

_____

_____

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

C. A. Coppin
Lovelock, Nevada

4. Physical Discription

(a) Mining operations have put in about 40 feet of trenching, a 50 foot tunnel, a 68 foot tunnel, 110 foot tunnel and several short drifts and shafts. From these workings we took out 14 ton of antimony ore and shipped it to the smelter. It went about $70. per ton.

About 100 feet of rail and an ore car are now on the property. The road to the mine is fair. Twenty-one miles from Lovelock. The mine workings are open and in good condition for examinatio tion.

(b) There were several car loads of ore shipped from this property before we owned it. We do not have a record of this.

Past production as we know it is about $70. per ton in antimony and silver as shown on the enclosed smelter returns.

(c) Geologic features

Granite and lime with a hematite iron contact with characteristics of a blow-out. Ore comes in a series of veins containing antimony, galena and gangue materials. In the veins you hit bunches of rich ore with several tons in a bunch, then run a few feet thru barren vein and encounter other bunches of ore. These present workings are all near the surface. Workings not much over 25 feet deep.

It is our belief that by driving a tunnel that we can cut the ore bodies at least 100 feet down and that there will be rich ore at the contact. We have no geology reports or maps.

(d) Access road is in fair condition and graveled. It is 21 miles to Lovelock the shipping point. Lovelock is also the supply and residence point.

(e) Availability of manpower-plenty. Applicant has materials and equipment. Supplies can be purchased in Lovelock. Water- there is a small spring one half mile from the mine which could be used for drilling purposes and etc.

Power- gasoline compressors.

5 (b) Proposed work

It is proposed to drive 250 feet of straight tunnel and then cross cut each way to the lime-granite contact and also to the lime-hematite contact. This making a total of 350 feet of drifting as shown on the accompanying map sketch.

(d) C.A.Coppin, applicant will carry out and supervise operation He has been in the mining business off and on since he started to work for the ACM Co. in Butte in 1915. He has worked at every job in the mine from mucker to superintendent. During World WarII he was superintendent of the Red Bird Quicksilver Mine for the Harold's Club. He has a gold mine of his own that he works off and on. He has also been in the garage and service station business.

C.A. Coppin
Lovelock, Nevada

6(a) Independent contract: C.A.Coppin will do the 350 feet of drifting at $30. per foot, this to include all costs such as pipe, line tracks, timber where needed, etc. Total $10,500

(b)(c) included in total under 6(a) above.

(d) Operating equipment will be furnished by applicant. Consists of:

1	Ton and a half Ford Truck	Rental Value	$250. per mon.
1	315 Ingersol Rand Air Comp.	"	310.
2	"	" heavy drifters	

Drilling bars, arms, all necessary hoses, cars etc. $170.

The above is owned and will be furnished by C.A.Coppin.

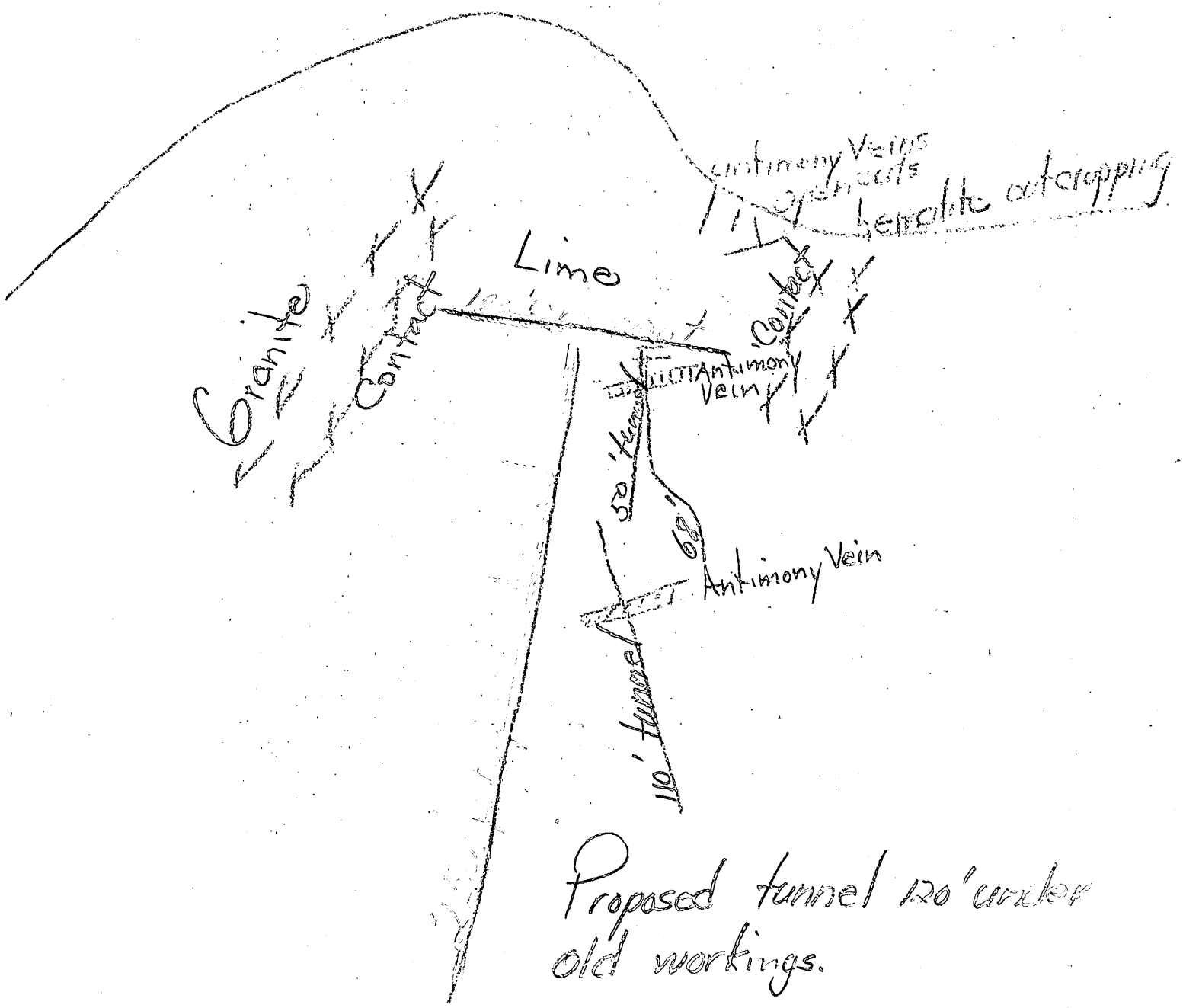
(e) none

(f) none

(g) included in 6 (a) total above.

(h) none

5(b)



NEVADA MINING ANALYTICAL LABORATORY
UNIVERSITY OF NEVADA
RENO, NEVADA

No. 467

Mr. C.A.Coppin
Lovelock, Nevada

Date April 16, 1954

Number	Mineral or rock	Ounces per Ton Gold	Silver		
1	Quartz, stibnite, pyrite, limonite	trace	23.2	Antimony	42.7%
				Lead	none

Signed by Claude W. Hammond
Analyst

Data taken from settlement sheet from USSmelter, Salt Lake City:

Oz. per ton Gold .035 Silver 21.60
Per cent - Lead 8.50 Iron 4.30 Sulphur 7.80 As. .10 Lime 4.10
Antimony 24.90 Insoluble 38.20

Gross value 34.21 Less working charges of 13.81 Payment at $70.40

14.196 ton less hauling charges netted $700.08

The above was sold to the United States Smelting Refining and Mining Co. of Salt Lake City in June 16, 1952 by Canfield, Sanson and Coppin all of Lovelock.

C. A. Coppin
Lovelock, Nevada

FORM C.O. 77-2

UNITED STATES SMELTING REFINING AND MINING COMPANY

NINTH FLOOR NEWHOUSE BUILDING

Salt Lake City, Utah, [illegible]

Purchased From [illegible]

Pay [illegible]

Ore [illegible] Lot No. 1 Gold License No. [illegible]

Sampled by [illegible] Received [illegible] Sampled [illegible] Assayed [illegible]

Metal Quotations—Gold [illegible] Silver [illegible] Copper, N. Y. [illegible] Lead, N. Y. [illegible] Zinc [illegible]

ASSAYS	GOLD OZS. PER TON	SILVER OZS. PER TON	PER CENT COPPER WET	PER CENT LEAD	PER CENT INSOLUBLE	PER CENT IRON	PER CENT ZINC	PER CENT SULPHUR	PER CENT [illegible]	PER CENT [illegible]
U. S. S. R. & M. Co.				[illegible]					[illegible]	
									[illegible]	
Umpire										
[illegible]				[illegible]					[illegible]	
Settlement Assay	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]

CAR NOS.	WET WEIGHT
[illegible]	
Total Wet Weight	
Sacks	
Net Weight	[illegible]
Less H_2O [illegible] %	[illegible]

METAL VALUE		
Gold 100% @ [illegible]	[illegible]	[illegible]
Silver [illegible]% @ [illegible]	[illegible]	[illegible]
Copper		
Lead	[illegible]	[illegible]
Zinc		
[illegible]	[illegible]	[illegible]
Gross Value	[illegible]	[illegible]
Less Working Charge	[illegible]	[illegible]

WORKING CHARGE		
Treatment Base 30% Lead	[illegible]	50
Credit Acc't Over 30% Pb.		
Debit Acc't Under 30% Pb.	[illegible]	[illegible]
Insoluble	[illegible]	[illegible]
Zinc Charge, excess over 6%		
Sulphur Charge, excess over 2%	1	45
Arsenic Charge, excess over 2%		
Total Debit	[illegible]	[illegible]
Iron Credit		26
Net Working Charge	[illegible]	[illegible]

Dry Weight, lbs. [illegible] Payment for [illegible] tons @ [illegible] per ton [illegible]

Freight advanced @ per ton		
Assay Charges		
Sampling or Watching Charges		
Hauling Charges [illegible] per ton	[illegible]	
[illegible]	[illegible]	[illegible]
[illegible]		
Amount Withheld Pending Receipt of Silver Affidavit		
Net Payment	[illegible]	[illegible]

Please return