DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Cont 1 Slip

CONTROLLED DOCUMENT

DMA Docket No. DMEA-2808

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CYS TO USGS, USBM, REG. III

To:	Code 700 Rm 4640	Date	12/12/52
To:	Oper Comm.	Date	1-23-53
To:	Oper Comm	Date	3-18-53
To:	Oper Comm	Date	4-8-53
To:	Oper Comm	Date	6-24-53
To:	Oper Comm	Date	10-18-56
To:	Admin	Date	10-19-56
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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1605 Evans Avenue
Reno, Nevada

June 27, 1956

J. A. Barry
Pilot Mining Company
1320 Arapahoe
Los Angeles 6, California

RECEIVED
JUN 28 1956

Re: Docket DMEA-2808 (Mercury)
Redwing Mercury Claims
Mineral County, Nevada

Dear Mr. Barry:

I have been holding your letter of June 6, 1956 until I could study the files on Docket DMEA-2808 and interview some of the Government engineers who had previously examined the property.

Your old docket DMEA-2808 has been completely closed out on the books. I am, therefore, enclosing a new set of application forms, MF-103, should you wish to renew your request for a loan. You can refer to the old docket No. DMEA-2808 in answering some of the questions. Any pertinent additional information that would indicate that the property is now more attractive for a loan than in 1953 should be brought to our attention.

Data we have on hand leads to the preliminary conclusion that the erratic occurrence of cinnabar, in addition to the narrow widths exposed, does not indicate that a significant discovery can be expected from exploration work. You request a very moderate loan, however, and we will be pleased to reconsider your application and a reexamination of your property if you wish to make a formal application. We have a good map of the area in our files, and a map need not be presented.

Very truly yours,

S. Ricker, Executive Officer
DMEA Field Team, Region II

Encl.

SRicker:gh
cc: Opr. Com., DMEA, Wash., D.C.
R. M. Smith

File

FILE COPY
SURNAME:
Decker
Ellis
Hedges
Powell
Selfridge

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

Mr. J. A. Barry
Pilot Mining Company
1320 Arapahoe Street
Los Angeles 6, California

JUN 2 6 1953

Re: Docket No. DMA-230 (Mercury)
Red King Claims
Pilot Mts. District
Mineral County, Nevada

Dear Mr. Barry:

This refers to your request for a reconsideration of your application for an exploration project in the amount of $10,065.00 which was previously denied in accordance with our letter to you dated March 19, 1953.

In your letter of March 25, to Congressman Gordon L. McDonough of the 15th District, California, you ask certain questions regarding said denial. We will answer these questions in their numerical order, as requested by Congressman McDonough.

1. A field examination of your property, following your application, was not deemed necessary at the time since there was considerable information available to our Field Team. However, as a result of your request for reconsideration, the Red King Claims were visited by our field representative on May 1, 1953.

2. Denial was not made because of any new policy of retrenchment in this Agency. While mercury is not now on the list of eligible metals, all applications submitted up to May 15 were processed in accordance with a directive to this Agency dated June 1, 1953.

3. The basis for denial was simply that the subject property, based on all the information available, did not look sufficiently promising, from a geological standpoint, to justify Government participation.

4. No, there is no additional work necessary as we have sufficient information upon which to reach a decision.

We have again carefully reviewed your application and all the available information and regret to inform you that our earlier denial is substantiated.

The staff of DMEA wishes to express its appreciation for your interest in the exploration program and for your cooperation during the period your application has been under consideration.

Sincerely yours,

C. O. Mittendorf

Administrator

P.H.
6-26-53

DMEllis/db
6-19-53
cc to: Hon. Gordon L. McDonough
Adm. Reading File
Operating Committee
Docket
Messrs: H.W.Meyer, Rm. 3623
A.P.Kinkel, Rm. B-242A, OSA
Ellis
DMEA Field Team, Region III (2)

FILE COPY
SURNAME:

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

JUN 26 1953

Hon. Gordon L. McDonough
House of Representatives
Washington 25, D. C.

Re: Docket DMEA-2808 (Mercury)
Pilot Mining Company
Red Wing Claims
Mineral County, Nevada

My dear Mr. McDonough:

This is with reference to my letter of April 9, 1953, in reply to your inquiry of March 25, 1953, for a full report on the subject case.

As you were advised in my letter, this application was again referred to the Field Team for consideration. The report of our Field Team covering their recent examination of the applicant's property has now been received, and reviewed, together with the application and other related data. This review confirms our original findings in this case, that the potential production of the property does not justify the expenditure of Government funds.

Your letter also transmitted a letter from Mr. John A. Barry, Los Angeles, California, in which certain questions regarding this application were set forth. A copy of our reply to Mr. Barry's letter is enclosed.

I regret that the circumstances are such that denial of the application was found necessary.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

6-26-53

Enclosure

EWEllis/FEJohnson/db/bih/fw
6/25/53
cc: Docket
Admr Reading File
Operating Committee
Region III (2)
Mr. H.M.Meyer, R-3623
A.R.Kinkel, GSA Rm.B242A
E.W.Ellis
F.E.Johnson

FILE COPY
SURNAME:
Docket
Ellis
Hedges
Kinkel
Selfridge

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

Hon. Gordon L. McDonough
House of Representatives
Washington 25, D. C.

Re: Docket No. DMEA-2608 (Mercury)
Pilot Mining Company
Red Wing Claims
Mineral County, Nevada

My dear Mr. McDonough:

With further reference to our letter of April 9, 1953, we have received a second report by our Field Team on the captioned property. As a result of a field examination and our review of all information available, I regret to advise you that the application is again denied.

Enclosed is a copy of our letter to Mr. J. A. Barry, in which we have answered the questions in his letter to you of March 25th.

I regret that the circumstances are such that a denial of the application was found necessary.

Sincerely yours,

Administrator

EWEllis/db
6-11-53
cc to: Adm. Reading File
Oprrating Committee
Docket
Messrs: H.M.Meyer, Rm. 3623
A.R.Kinkel, Rm. B-242A, GSA
Ellis
DMEA Field Team, Region III (2)

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

June 19, 1953

SUMMARY OF PROPOSED PROJECT

Docket No. DMEA-2808
Applicant: Pilot Mining Company, J. A. Barry, sole General Partner
Subject: Reconsideration of application previously denied March 19, 1953.

Commodity: Mercury
Location of property: Mineral County, Nevada Region III

Amount of Application: $10,065.00
Date of application: December 8, 1952.

Outline of project: Repair first 25 feet of inclined shaft, then sink to 100-ft. level, then crosscut 20 feet on the 100 level followed by 80 feet of drifting.

Field Team Report: 2nd report dated May 29, 1953, by E. H. Pampeyan, U.S.G.S. Mr. Miller's transmittal letter June 4, 1953."Small amounts of crystalline and painty cinnabar were seen as fracture fillings in, and disseminated through, the country rock."

Recommendation: Denial based on field examination made May 7, 1953.

Commodity Members' Comments:

Bureau of Mines: Memo from Miss Helena M. Meyer, dated June 17, 1953, concurring in the Field Team's recommendation that the loan be denied.

Geological Survey: Memo from A. R. Kinkel, Jr., dated June 11, 1953, concurs with Field Team in recommending denial.

Rare & Misc. Metals Division, Engineer: Ernest Wm. Ellis

Comments: I recommend denial for the second time.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare & Misc. Metals Division

6/18/53 gla

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

June 17, 1953

Memorandum

To: E. W. Ellis

From: Helena M. Meyer

Subject: DMEA Docket 2808, Pilot Mountain Mining Co., Redwing Mercury Mine, near Mina, Nev., exploration loan, Field Team report

I have read the Field Team report on the Redwing mine and inasmuch as the evidence does not point to the possibility of finding substantial reserves of even submarginal ore, I concur in the recommendation that the loan be denied.

Helena M. Meyer

Helena M. Meyer

Copy to: Minerals Division
Base Metals Branch
H. M. Meyer
Files
A. R. Kinkle, Jr. Room 4234 GSA

6/15/53 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
JUN 1 1 1953

June 11, 1953

Memorandum

To: Mr. E. Wm. Ellis

From: A. R. Kinkel, Jr.

Subject: Concurrence with field team denial

Re: Docket DMEA-2808
Pilot Mining Company
Red Wing Mercury Mine
Mineral County, Nevada
Mercury

I concur with the field team in denying this application.

A R Kinkel Jr

A. R. Kinkel, Jr.

6-9-53 [illegible]

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

Office of
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

June 4, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2808 (Mercury)
Pilot Mining Company, Red Wing Mercury Mine
Mineral County, Nevada

Reference is made to your letter dated April 9, 1953, suggesting that we have the subject property examined by the Field Team. This examination was made prior to the receipt of the Administrative Order which removed mercury from the list of minerals and metals for which exploration the Government furnished funds.

Attached are the original and three copies of a report entitled "DMEA-2808, Redwing Mercury Mine, Pilot Mining Company, Mineral County, Nevada, by E. H. Pampeyan, Geologist, U. S. Geological Survey, dated May 29, 1953."

It is noted that the examining geologist concludes that the potential production of the property is so small that the applicant's request for Government aid should be denied. The evidence is such that Mr. Bailey and I are in agreement with the conclusions of the examining geologist.

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

Attachment

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 1953

Rev Op Com
6-12-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
SECRETARY OF THE INTERIOR, D. MCKAY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2808, Redwing Mercury Mine,

Pilot Mining Company

Mineral County, Nevada

E. H. Pampeyan, Geologist
U. S. Geological Survey

May 29, 1953

Reviewed Op Com.
6-12-53

Sketch map removed
to accompany draft
of new proposed
Contract.

S.P.H.

Summary

The Redwing Mercury Mine, at the western edge of the Pilot Mountains Quicksilver District, Mineral County, Nevada, consists of a short shaft, three adits totalling 120 feet, and numerous shallow surface trenches and prospect pits. The surface and underground workings explore mineralized faults that cut limestone and conglomerate of the Lower Jurassic Dunlap formation. The mineralized faults dip northerly and are believed to continue downward. The applicant proposes to sink an inclined shaft between the cinnabar-bearing faults and then to crosscut and drift along the structure. Because it seems likely that the production from the property will be small, it is recommended that the request for Government aid in a $10,065 exploration program be denied.

Not sufficient reason in itself. EWB

Introduction

The Redwing Mine is in the S½ of sec. 17 and N½ of sec. 20, T. 6 N., R. 36 E., MDBM, eastern Mineral County, Nevada. The mine is about 10 miles southeast from Mina, Nevada. It is reached by traveling north 0.8 mileon U.S. Highway 95 from the Post Office in Mina, then turning right on Simon Road for 2.2 miles, then turning right again on the Dunlap Canyon Road. After 6.4 miles on the Dunlap Canyon Road, turn right at the Hitt Mine sign for 0.2 mile and pass through the old McKinnon Ranch for 1.1 miles to the Redwing cabin. The roads, other than Highway 95, are graded gravel and are passable except after heavy rain or snow. The cabin and main workings are between 7400 and 7750 feet above sea level.

Cinnabar was discovered on this property in 1935 and has been mined sporadically since that time. Total production is reported to be about 30 flasks. No development work has been done on the property since 1943.

The property is owned by J. A. Barry of Los Angeles, California, who is applying for a DMEA loan under the name of the Pilot Mining Company, Los Angeles, California.

The Redwing Mine was visited on May 7, 1953 by E. H. Pampeyan and D. C. Ross of the U.S. Geological Survey with the purpose of making a field examination and DMEA report. At the time of the visit, a compass and tape traverse was made of the principal workings and samples were taken for assay.

Development

The underground workings consist of a 15-foot inclined shaft and three adits totaling 120 feet in length. A portion of one adit has been stoped 20 feet to the surface.

Surface work has been limited to several shallow trenches and many small pits. A very heavy rain during the summer of 1952 has obliterated much of the surface work.

A small cabin, in good condition, is on the property. No useable mining or furnacing equipment was seen.

Geology

The quicksilver deposits in the Pilot Mountains have been mapped and described by Bailey and Phoenix, and Phoenix and Cathcart _/.

_/ Bailey, E.H., and Phoenix, D.A., Quicksilver deposits in Nevada: Univ. Nev. Bull. vol. 38, no. 5, Dec. 1944.
Phoenix, D.A., and Cathcart, J.B., Quicksilver deposits in the southern Pilot Mountains, Mineral County, Nevada: U.S.G.S. Bull. 973-D, 1951.

The Redwing property, at the western edge of the Pilot Mountains Quicksilver District, is underlain by limestone and conglomerate reported to be part of the Lower Jurassic Dunlap formation. The sediments, in the area surrounding the mine, are cut by several minor northwest-trending, steeply-dipping faults. These faults provide the structural control and locally contain quicksilver ore.

The conglomerate crops out in the southern part of the Redwing property. It is composed of subangular to subrounded fragments of chert, averaging 10 mm in diameter, in a fine-grained siliceous matrix. The conglomerate beds range from six inches to two feet in thickness, strike slightly east of north, and dip to the west. Minor interbeds of dark red sandstone occur locally. The contact between conglomerate and limestone seen in the surface cuts is faulted. Much of the contact, however, was hidden by soil cover.

The limestone crops out in the northern part of the property. It is light colored and very fine-grained. Beds averaging one foot in thickness are exposed underground and their strike varies from N-S. to

N. 69° E. The beds dip 60-70° east. Locally, near the faulted contact, the limestone is silicified.

Cinnabar, the only quicksilver mineral seen, occurs along the northwest-striking faults at the southern end of the property in both conglomerate and silicified limestone. Small amounts of crystalline and painty cinnabar were seen as fracture fillings in, and disseminated through, the country rock.

Sampling

Two samples were taken for assay from the only showings of cinnabar on the property. A description of the samples and their values follows:

Sample		Pounds mercury per ton
RW-1	3' channel sample across shear in main shaft -- shear 1' wide	0.4
RW-2	2' channel sample across shear in stope and adit -- shear 1' wide	0.3

Reserves

The applicant reported that cinnabar crops out in about 20 different localities on the property. The field team visited the localities shown on the applicant's map but found that heavy rains during the past summer had filled or removed the traces of many of the holes. Cinnabar was seen only in two localities along the favorable structures, but neither of the two spotty, mineralized croppings showed sufficient cinnabar to constitute ore. It is unlikely that the property could be profitably mined until the price of quicksilver approaches $300 per flask.

Proposed Exploration

The applicant proposes to extend the present 15-foot inclined shaft to a depth of 100 feet and then to crosscut 20 feet to, and drift 80 feet in, the favorable ore zone. (See map.) The total cost of the project would be $10,065 in which the Government's share would be $7,549.

The operator's cost figures are reasonable and the spotty type of deposit on the Redwing property would be best explored by underground work following the operator's plan. As no ore is exposed, it would be unwise to modify this plan or to suggest an alternate.

Recommendations

It is recommended that the Pilot Mining Company's request for Government participation in a $10,065 DMEA loan be denied as it is unlikely that the value of ore discovered would equal the cost of the exploration work.

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

May 22, 1953

Memorandum

To: File

From: Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

Subject: Docket No. DMEA-2808 (Mercury)
Pilot Mining Company
Red Wing Mercury Mine

The above-docketed application was denied* and the Applicant notified on March 19, 1953, following referral to DMEA Region III for a field examination, and on the basis of a report and recommendations contained in report of E. H. Bailey, Field Member, Region III, and memorandum of transmittal, dated February 17, 1953, by theExecutive Officer, Region III, in which it was stated that that office did not see the need for a field examination of the property.

Following the denial, the Applicant, through the office of Congressman Gordon L. McDonough, requested reconsideration be given to the application. Subsequently, on April 9, 1953, DMEA Region III Executive Officer was requested to make an exmination of the property and report thereon.

On this date a call was received by Mr. Mittendorf's secretary from Miss Comfort in Congressman McDonough's office (extension 553) saying that their constituent was inquiring again about this matter -- wants a quick decision because he is almost closed down.

I phoned Miss Comfort in Congressman McDonough's office and explained that mercury was off the "list". I promised I would get in immediate touch with Miller, Region III and have him call J. A. Barry, 1320 Arapahoe St. (L.A.) and tell him the situation. I called Miller 2:35 p.m. and he promised to call Barry at once.

Ernest Wm. Ellis

Ernest Wm. Ellis

*USGS and USBM Commodity members concurred in the denial.

FILE COPY
SURNAME:

Schmidt
Ellis
Hedges
Kinkel
Selbredge
Kipimen

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

APR 9 1953

Hon. Horace L. Rehbroub
House of Representatives
Washington 25, D. C.

J.C. 4/9/53

Re: Docket No. [illegible] (Nevada)
Eliot Mining Company
and [illegible] Mercury Mine
Mineral County, Nevada

Dear Mr. Rehbroub:

This acknowledges receipt of your letter of March 30 with enclosures of a letter by Mr. John [illegible] Harry of the subject company, dated March 25, and copy of a letter dated January 26 to Mr. Harry from [illegible] Miller, Executive Officer, [illegible] Field Team, [illegible], in San Francisco, California.

The application and all data concerning it have been carefully reviewed and a request has been sent to Mr. Miller for a reconsideration of this case, the results of which will be made known to you. Mr. Harry will also be kept informed. We are sending Mr. Harry a copy of this letter.

The enclosures received with your letter of March 30 are herewith returned.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

Enclosures 4

cc to: Mr. [illegible] Harry
Eliot Mining Company
[illegible] Street
[illegible] Oakland, California

PSSchmidt/gla 4-3-53
cc to: Adm. Reading File
Docket
Messrs. RRKinkel, Rm. 4234 GSA
HMMeyer, Rm. 3623
Ellis
Schmidt
DMA FT, Region III (2)

GORDON L. McDONOUGH
15TH DISTRICT, CALIFORNIA
201 HOUSE OFFICE BUILDING

HOME ADDRESS:
4121 SOUTH BRONSON AVENUE
LOS ANGELES 8, CALIFORNIA

3/31/53 gla

COMMITTEES

BANKING AND CURRENCY
AND
GOVERNMENT OPERATIONS

Congress of the United States
House of Representatives
Washington, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 31 1953

March 30, 1953

C. O. Mittendorf, Administrator
U. S. Department of Interior
DMEA
Washington, D. C.

My dear Mr. Mittendorf:

Attached hereto is a letter from a constituent of mine, Mr. John A. Barry of 1320 Arapahoe, Los Angeles, California, regarding the denial of his application for a DMEA grant on his quicksilver property.

I would sincerely appreciate it if you will send me a full report on this case and reply to Mr. Barry's questions.

Sincerely yours,

Gordon L. McDonough

Gordon L. McDonough, M. C.
15th District, California

GLM:s
encl.

(Also Stamped- March 27,1953)

COPY

1320 Arapahoe, Los Angeles 6, California
March 25, 1953

Dear Mr. McDonough:

(Stamped March 27,1953)

My sister Betty Barry joins with me in this request for your inquiry, if practicable, into certain aspects of the denial of our application for a DMEA grant on our quicksilver property.

A glance at the enclosed letters will explain the course of the application. It was reviewed favorably by the Rare & Misc. Metals Division, followed promptly by the enclosed letter (copy) from Regional Office at San Francisco, indicating further favorable consideration. Now comes denial of application, as shown enclosed.

1. How could a field examination of the property be fairly made when normally blanketed in snow at this season? (Our engineer Frank Wicks suggested in originalapplication that we might facilitate such examination.)

2. Is denial made because of new policy of retrenchment in DMEA?

3. What were the final factors that defeated application having earlier favorable consideration? Mining factors, of course.

4. Is there anything specially advised - such as further further opening up cuts, and/or samling - that we might do to supply required data? Specifically indicated.

We must express our appreciation of the promptness of consideration of the application throughout. We wish to hold this advantage of time- we still can make an effort to begin some kind of an operation next month.

Any information or suggestions concerning the above will be hel helpful perhaps and thoroughtly appreciated.

Sincerely yours

(Signed) John A Barry

Hon. Gordon L. McDonough
201 House Office Building
Washington, D.C.

(COPY)

U. S. DEPT. OF THE INTERIOR
DMEA
WASHINGTON, D. C.

Office of
Executive officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

January 26, 1953

Mr. J. A. Barry
Pilot Mining Company
1320 Arapahoe Street
Los Angeles 6, California

Re: Docket DMEA-2808 (Mercury)
Redwing Mercury Mine
Mineral County, Nevada

Dear Mr. Barry:

The Washington office of the Defence Minerals Exploration Administration has phoned me requesting me to get some additional information from you, in connection with your request for Government Exploration assistance at the Redwing Mercury Mine.

The information requested is: (1) what is the cross sectional size of the shaft, that is, the size of the hole; (2) what size timber is to be used in the shaft; (3) what will be the size of the shaft in the clear, and (4) how many conpartments will there be and what size will they be in the clear.

The Washington office informs me that they are planning to put your exploration proposal on a unit cost basis. This will simplify matters all around and make accounting simple. The plan is to allow you four days work with a road grader at $50.00 a day or $200.00; $42.00 a foot for repairing and retimbering 25 feet of shaft or $1,050.00; $78.00 a foot for sinking 75 feet of shaft or $5,850.00, and $30.00 a foot for drifting and crosscutting 100 feet or $3,000.00. These figures give a total of $10,100.00 or $35.00 more than you asked for.

The above cost include all cost for consulting, supervision, engineering, accounting, sampling ,assaying and taxes. The cost of building the $300.00 tool shed also was taken care of in the unit cost. If this item were to be set out by itself in the contract, the simplified form of contract could not be used, so it seemed best to include the cost of building a shed in the unit costs which are high enough to cover the expense of erecting the building.

Kindly let me have the requested information as soon as possible.

Sincerely your,

(Note: Full information sent
by J. A. Barry, with details
by Engineer Frank R. Wicks,
Jan. 30, 1953)

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

FILE COPY
SURNAME:

Schmidt
Ellis
Sellmadge
Wittman

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

Mr. H. C. Miller
Executive Officer
DMA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

APR 9 1953

J. C. 4/9/53

Re: Docket No. DMA-2508 (Mercury)
Pilot Mining Company
Red King Mercury Mine
Mineral County, Nevada

Dear Mr. Miller:

Enclosed is a copy of a letter by Congressman Gordon L. McDonough, together with a copy of a letter to him by John A. Barry, which refers to a copy of your letter to Mr. Barry of January 2 , 1953.

It is unfortunate that Mr. Barry should have gotten the impression through this letter of January 26 that we were definitely going to write a contract on his application before we had a Field Team report. It had naturally been our thought that any discussion with the Applicant concerning a proposed contract would have been by the Field Team in accordance with our usual practice, and that they naturally would not discuss any contract if there were not going to be one.

Since the Applicant had been asked details concerning a proposed contract and this was followed by a denial without an examination of the property, it is only natural that the Applicant should be somewhat bewildered.

This application is for a total amount of $10,055.00, with Government participation of $7,5,8.75. The Applicant has provided us with a favorable and constructive report by Frank Hicks, a reputable, experienced engineer of California. This report cannot be passed over lightly in the appraising of a prospect of this kind which may have produced 75 flasks of mercury. Miss Helena Meyer of the commodity committee reported as of January 6 that this claimed production is reasonable according to the records of the Bureau of Mines.

Since there seems to be some justification for confusion on the part of Mr. Barry, and there may be some doubt as to the advisability of a complete denial, it is suggested that this property be examined by the Field Team in accordance with your letter to this office of February 3, in order that our position in this matter be based on the fullest consideration of the rights of the Applicant.

Sincerely yours,

(JNB)

Chairman, Operating Committee

Enclosures 3

FSSchmidt/gla 4-3-53
cc to: Adm.Reading file
Operating Committee
Docket
Messrs. ARKinkel, Rm. 4234 GSA
HMMeyer, Rm. 3623
Ellis
Schmidt
DMEA FT, Region III

APPROVED:

(JNB)

Member, Bureau of Mines

(JNB)

Member, Geological Survey

FILE COPY
SURNAME:

Schmidt
Ellis
Hedges
~~Bonnor~~
~~Selfridge~~

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

MAR 19 1953

Pilot Mining Company
c/o Mr. J. A. Barry
1320 Arapahoe Street
Los Angeles, California

Re: Docket No. DMEA-2808 (Mercury)
Red Wing Claims, Pilot Mts. District,
Mineral County, Nevada

Gentlemen:

Reference is made to your application, dated December 8, 1952, for Government aid on the captioned project.

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

A careful study of your proposal and data available to this agency, and an examination of the property concerned reveal that the probability of disclosing minable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation.

We regret that under these circumstances your application for exploration aid to the extent of 75% of $10,065.00 must be denied.

If additional work on your property reveals information which makes the project feasible, an application may be submitted for consideration.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

GLAult/FSSchmidt/eef
Date-3/17/53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. ARKinkle, Rm.4234 GSA
HMMeyer, R . 3623
Ellis
Schmidt
DMEA FT.Region III (2)

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

March 17, 1953

SUMMARY OF PROPOSED PROJECT

Docket No. DMEA-2808
Applicant: Pilot Mining Company, J. A. Barry, sole General Partner

Subject: Denial of application

Commodity: Mercury

Location of property: Mineral County, Nevada (Region III)

Amount of application: $10,065.00

Date of application: December 8, 1952

Outline of project:

Repair first 25 feet of inclined shaft, then sink to 100-ft. level, then crosscut 20 feet on the 100 level, followed by 80 feet of drifting.

Recommend Field Team Exam. Helena Meyer 1/6/53 E.L. Newcomb 12/17/52.

Field Team Report: Dated February 13, 1953
by E. H. Bailey, USGS
Mr. Miller's transmittal letter February 17, 1953

Comments: No examination needed. Mr. Bailey already familiar with the property. Cinnabar occurs in thin seams 1/4 to 1/2-inch thick. Reported production exaggerated. No indications of possible significant discovery.

Commodity Committee:

Bureau of Mines Member: Miss Helena M. Meyer
Memorandum March 10, 1953: States only that she concurs in denial.

Geological Survey Member: Arthur R. Kinkel, Jr.
Memorandum March 4, 1953: Concurs in denial; also that there is apparently no necessity for a field examination since Bailey is familiar with the property.

DMEA Member: F. Sommer Schmidt

Comments: Bailey gives no encouragement to hope for any success in an exploration project. No alternative but to concur. Denial letter written.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

3/11/53 gla

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

March 10, 1953

Memorandum

To: E. W. Ellis, DMEA

From: Helena M. Meyer, Base Metals Branch

Subject: DMEA Docket 2808 (Mercury), Pilot Mining Co., Redwing Mercury Mine, near Mina, Nev., exploration loan $10,065

I have read Mr. Bailey's memorandum of February 13, regarding the subject property, and concur in his recommendation that the application be denied.

Helena M. Meyer

Helena M. Meyer

Copy to: Minerals Division
Base Metals Branch
H. M. Meyer
Files
A. R. Kinkle, Jr. Room 4234 GSA

3-4-53

IN REPLY REFER TO:

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

March 4, 1953

Re: DMEA-2808
Pilot Mining Company
Redwing Mercury Mine
Mina, Nevada
Mercury

Memorandum

To: Mr. E. Wm. Ellis

From: Arthur R. Kinkel, Jr.

Subject: Recommendation of denial of application

I concur in the field team's denial of this application. There is apparently no reason for requesting an actual field examination, as Bailey is familiar with the property.

A R Kinkel Jr

Arthur R. Kinkel, Jr.
Geologist

2/25/53 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1953

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

February 17, 1953

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 DMEA-2808 (Mercury), Pilot Mining Company, Redwing Mercury Mine, Mina, Nevada

Reference is made to your letter, dated January 26, referring the subject application to us for a Field Team examination.

Mr. Bailey of the Geological Survey, who is intimately familiar with the Redwing Mercury Mine, reviewed the application and Mr. Frank R. Wicks' report and has addressed a memorandum to me, dated February 13, giving his facts on the mine and the proposed exploration.

Four copies of the cited memorandum by Mr. Bailey are attached herewith. Although we do not see the need for a field examination of the property, we will gladly have one made if your review of Bailey's memorandum indicates the advisability of such examination.

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

Attachments

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

Rev. Op Com
3-2-53

2/17/53

DMEA 2808 Pilot Mining Co mercury.

There is nothing to be done with this application now. It has been referred to the Field Jan 26 and the operator notified of this same date. Meantime I suggested that the field team contact the operator when they examine the property on the question of whether we cannot simplyify the contract and put it on a unit cost baseis. Meantime Miller has contacted the operator and it is acceptable with him to do so. However this does not permit us to go ahead until we have a field team report and I understand that this may be delayed because of snow in Feb.

Wait for Field Team report ad commodity men comments on it

Schmidt

It will be noted that while I suggested the Field Team contact the operator concerning contract when they examine the property nothing would be said about a contract unless the Field Team recommended one

February 13, 1953

Memorandum

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

From: E. H. Bailey, Field Team Member, Region III

Subject: Docket DMEA-2808 (Mercury), Pilot Mining Company, Redwing Mercury Mine, Mina, Nevada

In a letter, dated January 26, 1953, Mr. Selfridge requested a field examination of the Redwing Mine to ascertain the feasibility of an exploration project involving about $10,000 and to consider the advisability of preparing a plan for more extensive exploration. This memo is submitted, because I am personally familiar with this mine and believe I have sufficient data on it in my files to remove the necessity for a field examination. In addition, I have consulted with Mr. D. A. Phoenix who has published a bulletin on the entire district. (U.S.G.S. Bull. 973-D, Quicksilver deposits of the Southern Pilot Mountains, Mineral County, Nevada, 1952).

We both believe no Government financial aid for exploration of this deposit should be granted for the reasons outlined in the following paragraphs:

(1) According to the report by Mr. Wicks, submitted with the application, no mining or development of consequence has been conducted on the property since it was last visited by Mr. Phoenix and myself in September 1943. Our mine and surface maps made at that date seem to show all of the workings described in the application or shown on the accompanying maps.

(2) The rocks of the area are part of the Dunlap formation which here consists chiefly of red and brown sandstone and conglomerate interlayered with lenses of fine-grained silicified limestone. The granite mentioned in Mr. Wicks' report has not yet been observed by Survey geologists working in the district. All the major ore bodies in the district have occurred below thrust faults in massive limestone. No thrust faults have been recognized near the Redwing Mine area, and the local lenses of sandy limestone near the mine are quite different from the favorable massive limestone, which is the host for the larger ore bodies in the district.

(3) Cinnabar occurs on the Redwing property chiefly in thin seams and veinlets, and it was especially concentrated along a fault in the narrow gouge zone and in a single veinlet varying in width from 1/4 to 1/2 an inch. The surrounding rocks contain only

Per Op Com
3-2-53

a few scattered crystals or veinlets. No areas of appreciable width containing enough cinnabar to constitute commercial ore were seen during our examination or mapping and, because of the character of the ore, it seems unlikely that any such areas would be found by further exploration. Attempts to mine along the isolated narrow veinlets to obtain retort ore were not successful even during the World War II period of high quicksilver prices. The reported "average samples across three to five feet of width...showing 40 to 100 pounds of mercury to the ton" could only have been obtained by cutting a narrow channel along a vein or sampling a face against which a vein was plastered. The assays included with the application and showing from 20 - 1200 pounds of mercury to the ton obviously represent sorted ore, as is indicated by their being designated as "_____pieces" or "select."

(4) The reported production of 75 flasks has not been substantiated, and in my opinion is probably a very generous estimate. The recorded production is two flasks, according to a check of the records made in 1944. Our estimate made at the property in 1943 on the basis of the burnt ore was 2 or 3 flasks. Subsequent inquiry in the district led Phoenix to estimate the production may have been as much as 30 flasks.

(5) The current need for mercury is not acute, and under such circumstances I feel Government financial aid for exploration of quicksilver deposits should be confined to those which offer reasonable promise of either (1) finding a large tonnage of near-commercial ore which would appreciably increase the domestic reserve, or (2) finding sufficient ore of mineable grade to repay the Government's share of the exploration costs. The Redwing Mine, in my opinion, cannot qualify under either of these criteria.

E. H. Bailey

700 FILE COPY
SURNAME:

Ellis

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

Mr. H. C. Miller
Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

FEB 9 1953

J.C. 2/9/53

Re: Docket No. DMEA-2808 (Mercury)
Pilot Mining Company
Redwing Mercury Mine, Mina, Nevada

Dear Mr. Miller:

Enclosed is a copy of Mr. J. A. Barry's letter to me dated January 30, 1953, which I believe you would like to have for your files.

Sincerely yours,

C. O. Mittendorf (fwd)

Administrator

Enclosure

EWEllis/gla 2-6-53
cc to: Adm. Reading file
Docket
Mr. Ellis

2/3/53 jm

JOHN A. BARRY

DU 8-6121

1320 ARAPAHOE - LOS ANGELES 6, CALIFORNIA

Jan. 30, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1953

Re: Docket DMEA-2808 (Mercury)
Pilot Mining Company
Redwing Mercury Mine
Mina, Nevada

Dear Mr. Mittendorf:

This is to acknowledge receipt of your letter of Jan. 26 advising that our application under the above captioned docket has been referred to the Executive Officer of Region III at San Francisco.

By same mail we are forwarding certain technical information as requested by Mr. Miller in his letter of Jan. 26, for his office.

May we stress our appreciation of the promptness with which our application has been handled, from the beginning, as well as the thoroughness evidenced.

Mr. Miller in his letter explained the plan of your office to put the exploration on a unit cost basis, with which of course we are in agreement.

Sincerely yours

JA Barry

Mr. C. O. Mittendorf
Administrator
Defense Minerals Exploration Administration
Washington 25, D.C.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 9 1953

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

February 3, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2808 (Mercury), Pilot Mining Company, Redwing Mercury Mine, Mina, Nevada, Mineral County, Nevada

Reference is made to your telephone call of January 22 requesting us to get some additional information on the Redwing Mercury Mine application.

You have a carbon copy of my letter of January 26 to Mr. J. A. Barry and I now have a reply, dated January 30, from Mr. Frank R. Wicks, the company engineer. The extra copy of Mr. Wicks' letter is enclosed. I believe he has answered all your questions.

By letter, dated January 26, from George C. Selfridge we have been requested to make a field examination of the Redwing Mercury Mine. This will be done at the earliest opportunity.

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

Enclosure

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

PHONES OFFICE - ~~VANDIKE 5384~~
RES. - LAFAYETTE 8276

FRANK R. WICKS
CONSULTING MINING AND INDUSTRIAL ENGINEER
~~100 WEST SIXTH STREET, LOS ANGELES 14, CALIF.~~
6816 Holmes Avenue,
Los Angeles1, Calif.
January 30, 1953.

Mr. J. A. Barry,
Pilot Mining Company,
1320 Arapahoe Street,
Los Angeles 6, Calif.

Re: Redwing Mercury Mine,
Mineral County, Nevada.

Dear Mr. Barry:

I have before me a letter from Mr. H. C. Miller, Regional Executive Officer, DMEA Region III, dated January 26th, requesting information regarding dimensions of proposed shaft for development of the Redwing Mercury Mine, under the DMEA-Application #2808. The intended program and the estimates of cost were based upon the following:

(1) Cross sectional size of shaft: 4'-2" x 8'-4".

(2) Size of shaft timbers: 8 x 8 collar set.
6 x 8 stulls, stringers and posts;
3 x 4 bucket skids; 2 x 4 ladder stringers; 2" lagging where needed.
timbers set in 4" hitches in hanging and foot walls.
Five foot sets; 7/16" hanger rods.

(3) Size of shaft in the clear: 4'-0" x 6'-11".

(4) Number and size of compartments: Two - manway and hoistway.
3'-1" x 3'-10" and 3'-4" x 3'-10".

My plan was to use windlass and small bucket for first fifty feet of depth; then to follw this with a small hoist, headframe, etc., for the remaining 50 feet and the drifting and crosscutting work. For safety, I propose to lag the timbers and backfill the irregular portion of the old shaft outside of the timbers, as the work progresses.

I believe the program proposed by Mr. Miller for a unit cost basis will work out very nicely on this job, assuming that they will allow interim payments to be made as the shaft sinking progresses. It will mean that you will need a somewhat larger operating fund, as the preliminary expense of getting equipment and transportation and getting ready to work will be larger than if the government shared in the part of the cost necessary to get to work. However, this situation is not too serious. Am glad that they were able to act on the application so promptly.

Very truly yours,

Frank R. Wicks

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

FEB 2 AM 11 : 2

SAN FRANCISCO, CALIFORNIA

2/2/53

LIBRARY
Defense Minerals Exploration

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

January 26, 1953

Mr. J. A. Barry
Pilot Mining Company
1320 Arapahoe Street
Los Angeles 6, California

Re: Docket DMEA-2808 (Mercury)
Redwing Mercury Mine
Mineral County, Nevada

Dear Mr. Barry:

The Washington office of the Defense Minerals Exploration Administration has phoned me requesting me to get some additional information from you, in connection with your request for Government Exploration assistance at the Redwing Mercury Mine.

The information requested is: (1) what is the cross sectional size of the shaft, that is, the size of the hole; (2) what size timber is to be used in the shaft; (3) what will be the size of the shaft in the clear, and (4) how many compartments will be there and what size will they be in the clear.

The Washington office informs me that they are planning to put your exploration proposal on a unit cost basis. This will simplify matters all around and make accounting simple. The plan is to allow you four days work with a road grader at $50.00 a day or $200.00; $42.00 a foot for repairing and retimbering 25 feet of shaft or $1,050.00; $78.00 a foot for sinking 7½ feet of shaft or $5,850.00, and $30.00 a foot for drifting and crosscutting 100 feet or $3,000.00. These figures give a total of $10,100.00 or $38.00 more than you asked for.

The above cost include all cost for consulting, supervision, engineering, accounting, sampling, assaying, and taxes. The cost of building the $300.00 tool shed also was taken care of in the unit cost. If this item were to be set out by itself in the contract, the simplified form of contract could not be used, so it seemed best to include the cost of building a shed in the unit costs which are high enough to cover the expense of erecting the building.

Kindly let me have the requested information as soon as possible.

Sincerely yours,

H. C. MILLER

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

HCMiller:mpp
Files, Chron.
Copy to: DMEA, Inter Building, Washington
E. M. Bailey, USGS

FILE COPY
FOR NAME:

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

BW.

Ellis
Hedges

JAN 2 6 1953

Mr. J. A. Barry
Pilot Mining Company
1320 Arapahoe Street
Los Angeles 6, California

Re: Docket DMEA-2808 (Mercury)
Pilot Mountain Mining Co.
Redwing Mercury Mine
Mina, Nevada

Dear Mr. Barry:

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

Mr. H. C. Miller
Executive Officer, Region III
DMEA Field Team
1012 Flood Building
870 Market Street
San Francisco 2, California

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

Sincerely yours,

C. O. Mittendorf (fw)

1-26-53

Administrator

FSSchmidt/jem
1/22/53
cc to: Adm. Reading File
Docket
Messrs. Ellis
Schmidt
Field Team, Region III (2)

FILE COPY
SURNAME:
700

Schmidt
Ellis
Selfridge

BW.

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

JAN 2 6 1953

Mr. H. C. Miller
Executive Officer, Region III
DMEA Field Team
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket DMEA-2808 (Mercury)
Pilot Mountain Mining Co.
Reawing Mercury Mine
Mina, Nevada

Dear Mr. Miller:

The subject application is referred to you for a Field Team examination. This project involving about $10,000, is a modest one based on very conservative cost estimates. With a total of 300 feet of underground work, this property has produced 75 flasks of quicksilver between 1935 and 1943.

The application is accompanied by an excellent report by Frank Hicks, consulting engineer for the Applicant. Considering the past record of the property, the Field Team may wish to consider whether a larger exploration plan may not be justified.

It is recognized that there is little likelihood of finding large ore bodies in this district, but there are 20 shallow pits in this Reawing Group nearly all of which show some cinnabar in place. It would seem possible that while this proposed project may prove to be important, that some diamond drilling on a limited scale might be justified to explore for mineralization on a somewhat larger scale. Possibly the project might be divided into two stages with the work proposed in this application as Stage One, to be followed, if recommended by the Field Team, by a Stage Two diamond drilling program guided by the information gained in this work of Stage One.

P.S. Copies of memoranda of December 17, 1952 and January 6, 1953 by the U. S. Bureau of Mines and the U. S. Geological Survey, respectively, are enclosed.

Sincerely yours,

George C. Selfridge (JHB)

Chairman, Operating Committee

S.H. 1-26-53

APPROVED:

J. H. Hedges (JHB)

Member, Bureau of Mines

T. P. Thayer (JHB)

Member, Geological Survey

FSSchmidt/jem 1/22/53
cc to: Adm. Reading File Docket
Messrs. H.M.Meyer-Rm.3623
A.R.Kinkel-Rm.4234 GSA
Opr. Com. Ellis Schmidt
Field Team, Region III

DMEA 2808 pilot MiningC o Quicksolver 1/22/53

Fone to H.C. Miller

I explained to him that we could ~~simply~~ simplify this contract by using the short form with unit costs instead of the complicated data submitted. this can be done by arriving at the same total costs and using the following unit costs which I suggested that he discuss with the field teqm and have them discuss with the applicant and if stisfactory the following could be used as a basis for the contract.

Road Patrol Grader 4 days at $50 per day includes all costs of labor and supplies	200.00
repair and timber of shaft 25 feet at $42	1050
sink 75 feet of new shaft a t $78	5852
100 feet of drift or crosscutting at $30	3000
	10,102.00

Miller seemed pleased to know that this might be done.

Schmidt

Mr. Miller was asked to discuss contract with field team & have them discuss with applicant. There would be nothing to discuss if field team would not recommend a contract

1/6/53 gla

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

January 6, 1953

Memorandum

To: E. William Ellis

From: Helena M. Meyer

Subject: DMEA Docket 2808, Pilot Mountain Mining Co., Redwing Mercury Mine, near Mina, Nev., exploration loan, total cost $10,065.00, Government share 75%.

The Redwing group was described in U S G S Bulletin 973-D, "Quicksilver Deposits of the Pilot Mountains, Mineral County, Nev.," by D. A. Phoenix and J. B. Cathcart. The Mina Development Co. mine by far the most productive mine in the district, according to Bailey and Phoenix in Quicksilver Deposits in Nevada, Univ. of Nevada Bulletin vol. 28, No. 5, 1944, p. 118, "lies in a thick bed of limestone and is classed as belonging to the limestone type of deposit." Most of the others, the report states, are classed as "belonging to the interbedded sediments type of deposit." Their ore bodies are smaller but are generally rich enough to be treated in retorts; they are mostly localized beneath, or along, small normal faults."

The applicants claim of production is reasonable, according to the records of the Bureau of Mines, as is the claim of production for the district.

The application is for a small amount and it appears likely that a small tonnage of relatively high grade ore, sufficient to justify the request for a loan, might be found. A field team investigation, however, is desirable to ascertain if the proposed work appears justified on the ground.

Helena M. Meyer

Helena M. Meyer

Copy to: Minerals Division
Base Metals Branch
H. M. Meyer
F I L E S
E. L. Newcomb
A. R. Kinkel, Jr.

JOHN A. BARRY

Dec. 31, 1952

1320 ARAPAHOE - LOS ANGELES 6, CALIFORNIA

Re: DMEA 2808

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

Defense Minerals Exploration
Administration
Washington 25, D.C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 5 1953

Dear sir:

This is to acknowledge receipt of your advice of assignment of Docket Number DMEA 2808 to our application dated Dec. 8, 1952, for exploration assistance under the Defense Production Act of 1950, as amended.

We note its reference to the Rare and Miscellaneous Metals Division.

We shall of course promptly cooperate with any request to facilitate your further consideration of our application.

Very truly yours

J. A. Barry

PILOT MINING COMPANY
By J. A. Barry
1320 Arapahoe st.
Los Angeles 6, Calif.

12/18/52 gla

IN REPLY REFER TO:

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

December 17, 1952

Memorandum

Re: DMEA-2808
Red Wing Claims
Pilot Mts. District
Mineral County, Nevada
$10,065
Mercury

To: Mr. E. Wm. Ellis

From: E. L. Newcomb

Subject: Recommendation for field referral

The applicant requests Government assistance to extend a 25-foot inclined shaft to a depth of 100 feet, crosscut 20 feet and drift 80 feet on the 100 level.

The old workings consist of several prospect pits, a 25-foot shaft, and a 70-foot adit which are developed in and near a mineralized fault zone.

The geology of the Red Wing claims has been described in USGS Bulletin 973-D, "Quicksilver deposits of the Pilot Mountains, Mineral County, Nevada", by D. A. Phoenix and J. B. Cathcart. The district is in an area of sedimentary, volcanic and intrusive rocks of Mesozoic age, which are locally overlain by Tertiary igneous rocks. Most of the mercury deposits are below two major northward dipping, low-angle thrust faults. The orebodies are believed to have been localized by normal faults transverse to the thrust faults. Most of the past production in the district has been from faulted limestones. However, small, rich orebodies have been mined in faulted sandstones and conglomerates. The available geological information indicates that the applicant's proposed work would be in the more favorable limestone.

According to Phoenix and Cathcart, there are no large, low-grade reserves in the district. Further exploration will probably disclose new orebodies, but they believe the size of the resulting operations will be relatively small.

The total past production from the district has been about 5,000 flasks of mercury. The Red Wing property has not been in production since 1942, but a fair estimate of past production would be about 30-75 flasks.

Several assays submitted by the applicant range between 16 and 60 per cent mercury. However, in a private report attached to the application, Wicks estimates that a typical portion of the mine averaged

about 4.2 per cent mercury. He also estimates that there may be 1,000 tons of 3 per cent mercury near the present shaft.

Although there is no apparent critical need for mercury and the expectable production from the Red Wing will probably be small, I recommend that the application be referred to the field team for their review. A field examination is needed before a firm recommendation can be made on the applicant's proposal.

E. L. Newcomb
E. L. Newcomb
Geologist

December 12, 1952

Pilot Mining Company
Mr. J. A. Barry
1320 Arapahoe Street
Los Angeles 6, California

Subject: DMEA-2808
Re: Exploration Assistance
Redwing Mercury Mine

My dear Mr. Barry:

The receipt of your application dated December 8, 1952 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2808 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2808 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

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

25451

PHONES: OFFICE - VANDIKE 5384
RES. - LAFAYETTE 8276

FRANK R. WICKS
CONSULTING MINING AND INDUSTRIAL ENGINEER
~~100 WEST SIXTH STREET~~., LOS ANGELES 14, CALIF.

Dec. 8, 1952.

Mr. C. O. Mittendorf,
Administrator,
Defense Minerals Exploration Administration,
United States Department of the Interior,
Washington, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 11 1952

Dear Mr. Mittendorf:

Attached hereto an application on Form MF-103 for exploration aid on a mercury property in Nevada. We are sending this to you direct at the suggestion of Mr. H. C. Miller, of San Francisco from whom we procured the blank forms.

As soon as the engineering examination is authorized, it would be well to have the engineer contact Mr. Barry direct, as he may be able to arrange a time when weather conditions are favorable. This area is often accessible in midwinter. We would like to get matters in shape for an early start on the actual work in the Spring.

Kindest personal regards.

Yours very truly,

Frank R. Wicks

Present address:
6816 Holmes Avenue,
Los Angeles 1, Calif.

cc: Mr. J. A. Barry

MF-103
(Revised April 1952)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 11 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. DMEA-2808
Metal or Mineral
Date Received 12/11/52
Estimated Cost
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: Pilot Mining Company, 1320 Arapahoe Street, Los Angeles 6, Calif. C/o. Mr. J. A. Barry.

(*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. Limited partnership. (Nevada) See attached sheets.

(*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 and 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 Redwing Lode Claims, in Sections: 17 & 20:T-6-N:R-36-E:M.D.M., as further described in attached addendum Sheets and Reports.

(*b*) State any mine name by which the property is known. Redwing Mercury Mine.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner

(*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. See report by Frank R. Wicks and other data attached.

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 Mercury, mostly as cinnabar.

(*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. See attached sketch marked in red pencil.

(*c*) The work will start April 1953 days and be completed within 4 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?

[X] 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 Dec. 8, 1952.

Pilot Mining Company
(Applicant)

By J. A. Barry
J. A. Barry
Sole General Partner

1320 Arapahoe St.
Los Angeles 6, Calif.

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

Addendum Sheets.
MF-103 Application for Aid in Mine Exploration.
Pilot Mining Company. (Mercury Mines)
1320 Arapahoe Street,
Los Angeles 6, Calif.

Addendum Sheet No. 1.

1. (a) Pilot Mining Company,
1320 Arapahoe Street,
Los Angeles 6, California.

(b) Limited Partnership in which J. A. Barry, 1320 Arapahoe Street, Los Angeles 6, Calif., is sole general partner and M. H. Nystrom, 1200 So. Hoover St., Los Angeles 6, Calif., is sole limited partner. Registered in ~~California and~~ Nevada.

(c) No Corporation.

(d) As shown above.

3. (a) Redwing Lode Mining Claims Nos. 1 to 7, unpatented, in Pilot Mining District, Mineral County, Nevada, Situated in and comprising portions of Sections 17 and 20:T-6-N:R-36-E:M.D.M.

(b) Redwing Mercury Mines.

(c) Owner of unpatented mineral claims by right of cash purchase and for location under applicable mineral laws.

(d) Copy of deed and location notices attached.

(e) No liens or incumbrances.

(f) See Engineer's Report attached, showing references to recording records.

4. Physical Description. See Engineer's Report by Frank R. Wicks, Consulting Mining Engineer, with maps and sketches. Complete signed copy attached. See also photostatic copy of letter prepared by former owner and operator.

5. Exploration Project:

(a) Mercury, mostly as cinnabar.

(b) See Wicks' Report. Propose to recondition and re-shape existing Redwing No. 1 Shaft. Then sink this shaft to 100 feet below collar. Then to crosscut 20 feet and

Addendum Sheets.
MF-103 Application for Aid in Mine Exploration.
Pilot Mining Company. (Mercury Mines)
1320 Arapahoe Street,
Los Angeles 6, Calif.

Addendum Sheet No. 2.

drift 80 feet at the 100-level; following narrow rich vein if possible, or following ore bearing structure in vicinity of cross fault fissure.

(c) Will begin work in April, 1953, and complete proposed program in four months or less.

(d) Applicant principals are experienced business manufacturers with fair but limited knowledge of mining. Applicant will employ local men, residents of Pilot District, experienced in mercury mining, when and if available, Engineering Supervision by Frank R. Wicks as needed.

6. Estimated Costs:

(a) Four days work on access road with patrol grader at $50.00 per day, contract, including moving time and all expense, equals $200.00.

(b) Ruling wages in District are $1.50 to $2.00 per hour for miners and all classes of labor, included in costs estimated below. Engineering supervision and consultant's will be limited to $500.00 total for fees and expenses. If this amount is exceeded, the cost will be borne entirely by applicant.

(c) Operating Materials and Supplies:

3000 bd. ft., 6x8 mine timber		
3000 bd. ft., 2x12 " "		
1000 bd. ft. Misc. sizes mine timber		
7000 bd. ft. @ $150.00 M, delivered	- -	$ 1,050.00

This for headframe, Shaft timbers, Station timbers and miscellaneous underground.

Addendum Sheets.
MF-103 Application for Aid in Mine Exploration.
Pilot Mining Company. (Mercury Mines)
1320 Arapahoe Street,
Los Angeles 6, Calif.

Addendum Sheet No. 3.

(c) Continued:

Amount forwarded from Sheet No. 2:	$	1,050.00
Explosives powder, caps & fuse for 150 lineal feet of shaft, cross-cut & drift work -		640.00
Fuel oil, gasoline and lubricants,		300.00
Rope and cable,		150.00
Drill steel and bits,		175.00
Parts for air drills that are now available,		75.00
	$	2,390.00

Labor, estimated:

75 ft. of shaft at $20.00 per foot for crew,		1,500.00
80 ft. of level work at $10.00 per foot for crew,		800.00
Preparatory work on existing shaft,		300.00
Station set at 100-level,		50.00
Surface work, hauling supplies, water, etc.,		500.00
	$	3,150.00

(d) Operating Equipment:

Air compressor Rental, 4 months at $200.00 per month,	$	800.00
Truck Rental, 4½ months at $250 per month,		1,125.00
One used mine car and 100 ft. track,		200.00
2 Ore Buckets for shaft, used,		100.00
Air and water pipe, additional needed,		150.00
Air hose for drills,		50.00
Miscellaneous tools,		200.00
Hardware, bolts, nails, locks, etc.,		100.00
Safety and First Aid equipment,		50.00
	$	2,775.00

(e) None

(f) One new tool house and shelter, 10x12, with tool lockers and bench and stove, 300.00
$ 300.00

(g)

Workman's Compensation,		300.00
Payroll Taxes,		150.00
Travel expense to get started,		100.00
Miscellaneous items,		200.00
	$	750.00

FRANK R. WICKS

Addendum Sheets.
MF-103 Application for Aid in Mine Exploration.
Pilot Mining Company. (Mercury Mines)
1320 Arapahoe Street,
Los Angeles 6, Calif.

Addendum Sheet No. 4.

Recapitulation:

Road Contract,	$ 200.00
Engineering Supervision,	500.00
Operating Materials and Supplies,	2,390.00
Operating Labor,	3,150.00
Operating Equipment,	2,775.00
New Building,	300.00
Miscellaneous,	750.00
Total:.....	$10,065.00

Road Patrol Grader Truck Contract
[illegible] Road all labor & supplies @ $50 per day the plan in the first [illegible] 200
Repairs timber 25' shaft @ " 42 = 1050
5 cms 75 " 78 = 5850
100' drifts/crosscut 30 = 3000
10,102

STATEMENT by W. [redacted] SEITZ, Locator & Former [redacted]er & Operator of Red Wing Quicksilver Claims, near Mina, Nev.

"Of the Red Wing group of claims, I'll say there has been retorted on the ground about 75 flasks of quicksilver. The ore that I ran was very high grade. It had to be because I ran it out in a four-inch pipe about six feet in length. I never ran anything under 50% stuff; except one ton which I retorted at the Mammoth 'D' retort, which assayed a little over 25% quicksilver. Some of the richest ore I found came from two small stringers just above where Mr. Cord ran that lower tunnel on the north end of the property. He expected to cut those veins at a depth of about 75 feet or more, but failed to find anything when he crossed the veins. I was satisfied, and told Cord at the time, he wouldn't hit any ore unless he ran that tunnel at least 750 feet; for the record of the camp goes to prove that the quicksilver lies not in that hard rock but along the faults or contacts. Those diorite dikes were pushed up through that red conglomerate, and along those lines of fracture is where you will find your ore in paying quantities. That shaft that Mr. Jiggs Morris sank on the south end of the claims high up on the hill is in an ideal location to tap the ore body, in my estimation.

"The bulk of all the ore taken out came from near where the above shaft is sunk. I took out quite a lot of ore along those small stringers near where the shaft is located. Those small stringers were very rich as they were small and were almost pure cinnabar. Those stringers ran from the location of the shaft to a point about 200 feet in a northerly direction. The open cuts although small should still be easily traced on the ground.

"All the ore was retorted on the ground, and I think Mr. Morris used fuel oil in place of wood for those pipe retorts. I don't know how rich the ore was that he ran, but it seems to me he told me that it averaged better than 4%. I sold about a hundred pounds to the Mina Mercury. They paid me on the basis of 50% ore.

"One thing I want to impress on you is this: keep away from those hard dikes, and concentrate on the softer formation. In my estimation there will never be found any large ore body in either the red conglomerate or the diorite dikes, but rather along the lines of contact between the two formations or on large faults. I spent a good many hard years in that district and think you will realize that I have it pretty well thought out along the line of where the ore should be.

"Those stringers down at the lower(northerly) end of the claims just above the Cord tunnel is an example of what I just said above about rich stringers in the hard rock. Those stringers were practically solid cinnabar, assaying 84% quicksilver. In fact, I retorted in one of those small four-inch pipes seventy-six pounds of quicksilver from only two powder boxes of ore and I did not recover all the quicksilver at that, as that was a rather crude method of retorting. But that ore did not penetrate a quarter of an inch outside of the crevice where it came up. And both stringers played out within ten feet of depth. Just a trace showed up where Cord cross-cut the veins below in the tunnel. Two diamond drill holes in the tunnel failed to show any ore in that hard rock, one hole was pointed straight down and the other one pointed into the mountain. I think these holes were about a hundred feet in depth. We sold nearly all our quicksilver to Mefford Chemical Co., Los Angeles"

Oct. 14, 1952
Heber, Utah

(SIGNED) W. B. Seitz
W. B. SEITZ

REPORT OF EXAMINATION

REDWING GROUP MERCURY CLAIMS

MINERAL COUNTY, NEVADA

Report Prepared
for
Mr. J. A. Barry,
1320 Arapahoe Street,
Los Angeles 6, California.

Report Prepared
by
Frank R. Wicks,
Los Angeles, California

Dec. 1, 1952

PHONES: OFFICE - VANDIKE 5384
RES. - LAFAYETTE 6276

FRANK R. WICKS
CONSULTING MINING AND INDUSTRIAL ENGINEER
108 WEST SIXTH STREET., LOS ANGELES 14, CALIF.

REPORT OF EXAMINATION

REDWING GROUP MERCURY CLAIMS

MINERAL COUNTY, NEVADA.

Date of this Report: Original: October 1, 1943.
Revised: December 1, 1952.

Dates of Examination: September 15-16, 1943.

Report Prepared for: Mr. J. A. Barry,
1320 Arapahoe S treet,
Los Angeles 6, California.
Phone: DUnkirk 2-7670.

Name of Property: Redwing Mercury Mine.

Principal Ore: Cinnabar.

Location: In the south central portion of Mineral County, Nevada. Eleven miles southeast from Mina, Nevada.

Names of Claims: Redwing Nos. 1-2-3-4 in original group. Redwing Nos. 5-6-7, recently added. Principal Claim is Redwing No. 1.

Titles: Seven unpatented lode mining claims in a contiguous group, owned by Pilot Mining Company, a limited partnership, of which J. A. Barry is sole general partner and M. H. Nystrom is sole limited partner.

Title acquired by cash purchase of the first four claims from original locators, followed by direct location of Redwing Nos. 5-6-7 by J. A. Barry.

See record of transfer to Pilot Mining Co., in Recorders office of Mineral County, Nevada, as shown in Volume 1 of Miscellaneous Register, at pages 4-5-6-7, recorded November 10, 1952.

Area: Approximately 75 acres in original group. Now totals about 130 acres.

Legal Record:	Located	Recorded	Book Page
Redwing No. 1	7-1-39	7-26-39	11 Mines 251
Redwing No. 2	"	"	11 - 251-252

	Located	Recorded	Book	Page
Redwing No. 3	7-1-39	7-26-39	11	- 252
Redwing No. 4	"	"	11	- 252-253

Assessment work on above claims for 1952
7-22-52: 8 Records 595-596

Redwing No. 5	11-21-52	11-28-52	14	413
Redwing No. 6	11-21-52	11-28-52	14	413
Redwing No. 7	11-22-52	11-28-52	14	413-14

Location Work on above Claims: Now in progress.

Location by Legal Description: In an unsurveyed area equivalent to Sections 17 & 20:T-6-N:R-36 East: M.D.M.

Mining District: Pilot.

Mountains: Pilot Range.

Elevation: At Properties: 7500-7900 feet, above sea level.
At Pilot Peak: 9200 feet.
At Mina: 4700 feet

Government Reservations: None.

Roads: Paved roads to Mina, on U. S. Highway 95. Thence, by Simon county road 2 miles; thence Southeast and South 8 miles to McKinnon ranch; thence a right hand turn and one mile to property. Road approaching the property is in steep narrow canyon.

Road Distances: Mine is 30 miles north of Coaldale Junction, which is 40 miles northwest of Tonopah, Nevada.

Base of Supplies: Mina. Southern Pacific Railroad branch line, and post office, stores, and motor courts, etc.

Equipment on Property: One good cabin, furnished. Small tools only.

Terrain: Barren rolling hills.

Climate: Severe winter storms, usually between Dec. 15th and April 15th.

Timber: Scrub cedar fire wood on property. Mine timbers can be purchased at Mina from nearby sources.

Water: Small springs near cabin on No. 4 Claim. Flow sufficient for camp use and for small mine operations. Could probably be increased by development. No water in mine workings.

Labor Supply: Ample local labor, experienced in these small mercury mines, for initial development program, and probably ample for any normal operations now contemplated.

Photos: By J. A. Barry.

Map and Sketches: Amended from original notes by Wicks and sketches by Barry.

Samples for Assay: Taken by Wicks and Barry and early lessees.

General Operating Conditions: Good.

GENERAL DESCRIPTION OF THE PROPERTY

The Redwing Claims form a compact group, with an area of about 130 acres, on the westerly slopes of the Pilot Mountains, overlooking Soda Springs Valley.

Adjacent to the Redwing Group, within a radius of 2½ miles there are six other mercury properties. Some have had good production records, others are only prospects as yet. All have had the same characteristic type of spotted, high-grade, clean cinnabar ore.

Within the boundaries of the Redwing Group, there have been about 20 discovery pits and prospect holes put down at various times. Nearly every one shows some cinnabar in place, usually as small disseminated spots of coarsely crystalline, brilliant red mineral or as thin rich streaks. No other sulphides appear to be present.

The main development is on the No. 1 Claim where six separate pits and a 25 ft. shaft tend to more or less outline a vein system. There appears to me to be a rather definite ore zone about 30 feet wide, indicated by two parallel veins on

hanging wall and foot wall sides. These have a strike of North 40 West in the vicinity of the shaft. The northwest extension trends more northerly on the No. 2 Claim. The Southeast end bends strongly to the east near the south side line of No. 1 Claim.

The upper vein dips 65 degrees easterly, while the lower dips 80 degrees easterly, indicating a tendency for the zone to widen at depth. The whole could perhaps be construed as a fault fissure with brown sandstone on the base and conglomerated quartz and silicified limestone as an upper strata of a sedimentary structure locally known as the Dunlap formation.

Crossing near the shaft is a diagonal or cross fault vein which strikes N 60 W and stands nearly vertical. This seems to be limited in extent to the sedimentary structure, but was apparently a localizing factor as to high grade spots and streaks of mineral in and about the shaft.

All of the sediments are so faulted that it is difficult to follow any structure very far. However, it is quite evident that mineralization is best in the softer rocks of the sedimentary series, in seams, cross breaks, and vugs, where replacement of fine grained white limestone has occurred.

Mineralization is limited to paint-thin seams and streaks in granitic joint planes and along granite-limestone contacts.

The shaft is a steep incline on a cross break in the zone. This is 25 feet deep and irregular in shape, as it

followed a very high grade streak from which the miners extracted ore for a hand operated D-furnace on the ground. They quit when the winter weather drove them out in 1942, and before they got back to it, the price of mercury had dropped.

No real productive effort or development has been undertaken since, except as required to maintain title. Most of this annual work was on the access roads.

On the No. 2 Redwing Claim there is an adit, variously reported as 65 to 150 feet long, but not accessible to me for examination. No production or discovery resulted from this tunnel work, According to my interpretation of the structure, the work was too far to the north and too high to cut the ore zone. The overlying andesite rocks are not apt to carry enough value to be workable, even though some of the pits above this adit and in that vicinity do show spots of cinnabar.

The total Redwing development represents less than 300 lineal feet of underground work, but this meager amount has resulted in the production of about 75 flasks of mercury as nearly as can be estimated--all between the years 1935 and 1943. This production was entirely from ores encountered while following seams and stringers, which was hand sorted and furnaced on the property by crude methods.

The Redwing Group has no developed tonnage of measurable quantity. The zone in which the No. 1 Shaft is started looks the best, mainly because it is the only tangible development. This section should easily develop a thousand tons of 3% ore in

a block 100 ft. deep x 200 ft. long, or the equivalent in higher grade ore if selectively mined. The chances for favorable development at other places on the property are equally good, particularly on No. 5 and No. 7 Claims.

Nearby Properties.

The Pilot Mountain District is credited with a yield of about 5000 flasks of mercury, up to 1944, from 16 mines in the same land township as the Redwing properties. This represents something more than one million dollars in value at present market. See Nevada State Bulletin Volume 38, No. 5 (December 1944). Geological-Mining Series No. 41. It is believed that the actual production has been substantially higher than reported.

In any case, the district is pretty well known as a quicksilver area, but much of it is or has been difficult to get into and difficult to operate because of lack of roads, power and fuel, and because of severe winters. Improved roads and better transportation equipment now tend to relieve the situation considerably.

The Redwing Nos. 5-6 are on ground formerly belonging to the Mammoth Group. This ground is good but was never seriously developed.

Redwing No. 7 is likewise a recent addition, comprising a part of the original Hitt Group, or bordering thereon. This claim should prove valuable when developed. On the original

Hitt property there was a small Gould Rotary Furnace plant with some accessories. This operated for a time and produced about 50 flasks of mercury before the operators lease expired. The furnace plant has not operated since 1941, and is now abandoned and looted.

Sampling:

For the most part the ore was so characteristic that no assay samples were necessary to sort ore for furnace treatment. Numerous spot samples were taken by owners which showed extraordinarily high mercury content. These can be considered specimen samples, but they were indicative of what could be done by hand sorting.

Average samples across three to five feet of width in the workings, showing 40 to 100 pounds of mercury per ton, really mean nothing as the results can not be repeated by resampling. The best assay figure I could get was to compute the returns from a certain excavation, wherein 400 cubic feet yielded 22 flasks of mercury. This indicates 83.6# mercury extracted per ton mined, or 4.2% Hg. from that particular section in and alongside of the No. 1 shaft.

Several assay sheets are attached which indicate the condition described.

Recommendations:

The Redwing property is in a good District and on a good structure to produce mercury ore. The limited development

has been productive of some very good ore of a type that is easy to treat. Properly directed future development in the fractured sedimenta ry ore zones should show useful and profitable results. It seems evident that the intensity of mineralization should increase somewhat at depth, so long as the fractured and faulted zones continue.

As a conservative program, I would suggest that the present No. 1 Shaft be collared and equipped as cheaply as possible, and this shaft be put down to 100 feet below the surface, or 75 feet below its present depth, somewhat as shown on the attached sketches, following the 65 degree dip as now started.

When this is done, I would like to see the workings again, but the general program to plan on would be 20 feet of crosscut at the 100-level, followed by 80 feet of drifting, according to the structural conditions found at the time. All of this work should produce some ore, but it should tend to prove up or develop a sizable block of ground, and it should be a guide as to what structures to follow elsewhere on the property.

I suggest rented equipment and only such surface and road work as necessary until this initial program is completed. If successful, as I anticipate, then a permanent set up can be made or a tunnel crosscut can be driven from the lower hillside road. Likewise, the installation of a furnace should be deferred until the full program can be determined.

The property is idle now and should remain idle until next Spring, except for the completion of location work on new claims and such surface exploration as may be conveniently done by a two-man crew, as winter weather may be expected soon.

Preparations should be made now to get the exploration plan started, but the actual work should be done during the Summer months of 1953. In the meantime, I recommend prospecting on adjacent ground and the location of such adjoining claims as may seem to have value.

Respectfully submitted,

Frank R. Wicks

Consulting Mining Engineer.
Registered Engineer #2370, Calif.

J. BENJ. PARKER, Mgr.

NEVADA MINERAL LABORATORIES
P.O. Box 387 1118 E. Fourth St.
RENO, NEVADA

NEVADA MINERAL LABORATORIES

233 E. PLAZA ST. PHONE RENO 21001
RENO, NEVADA

ASSAY CERTIFICATE

M. Barry 9-9-42

WE HAVE ASSAYED YOUR 6 SAMPLES AND FIND they CONTAINS: (PER TON OF 2000 LBS.)

NO.	MARK	GOLD Ozs. per Ton	VALUE GOLD	SILVER Ozs. per Ton	LEAD Per Cent Wet	COPPER Per Cent	MERCURY Lbs. Per Ton	ZINC Per Cent	WO3 Per Cent	Per Cent
1.							600			
2.							680			
3.							1200			
4.							268			
5.							32			
6.							38			

Remarks:

Charges: $ Paid.

J. Benj. Parker

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VAndike 9328

ED. EISENHAUER, Jr.

ASSAYER -- METALLURGIST -- CHEMIST

320-322 SOUTH SAN PEDRO STREET
LOS ANGELES 13, CALIF.

Nov 26/52

Mr. J.A. Barry
Los Angeles
Calif

Subject : Assay of Ore.

Marked : 5 pieces

Mercury (Hg) 1.03 %

Equivalent to 20.6 lbs per lb.

Subject : Assay of Ore .

Marked : Select.

Mercury(Hg) 33.82 %

Equivalent to 676.4 lbs per ton

Subject : Assay of Ore.

Marked : 7 pieces

Mercury(Hg) 2.51 %

Equivalent to 50.2 lbs per ton.

Respectfully submitted

Ed. Eisenhauer, Jr

Ed. Eisenhauer, Jr

AMEA-2808

FRANK R. WICKS

Addendum No. 15. Application MF-103. Dec. 8, 1952.
Pilot Mining Company. Redwing Mine.

Redwing No. 1 Shaft.
Photo taken in 1942.
Not worked since.
Location shown on
Addendum Sheets 8 & 14.

Closeup View of the
Footwall Rock at the
same location.

Addendum No. 16. Application MF-103. Dec. 8, 1952.
Pilot Mining Company. Redwing Mine.

Rich ore and open cut along upper Vein.
Redwing No. 1 Claim
(1942)

Open cut and short
adit on lower vein.
Redwing No. 1 Claim.
(1942)

Addendum No. 17. Application MF-103. Dec. 8, 1952.
Pilot Mining Company. Redwing Mine.

Redwing No. 1 Shaft shown
in center back ground.

Furnished cabin on Redwing No. 4 Claim
Spring at left side of cabin.

FRANK R. WICKS

Addendum No. 18. Application MF-103. Dec. 8, 1952.
Pilot Mining Company. Redwing Mercury Mine.

Southwesterly from Redwing No. 1 Shaft, to Redwing No. 5 Claim. Hitt furnace dumps and old Hitt workings in left background.

1942 operations. Compressor and truck on road just below Redwing No.1 shaft, on No. 1 Claim.

FRANK R. WICKS

Addendum No. 19. Application MF-103. December 8, 1952.
Pilot Mining Company. Redwing Mercury Mine.

Mina, Nevada. On US Highway 95 & S.P.R.R.

$\frac{1}{2}$ mile north of Mina. Turn east, Simon road, $2\frac{3}{4}$ mi.
Thence southeast to Dunlap Canyon Sign.
Roads maintained by Mineral County Crews.

Addendum No. 20. Application MF-103. December 8, 1952.
Pilot Mining Company. Redwing Mercury Mine.

At sign - Dunlap Canyon Road - turn right. To Redwing and Mammoth Mines 7 miles, passing old McKinnon Ranch enroute.

Mineral County Road Crews on this road, Nov. 1952.

TELEPHONE TRINITY 6894

CABLE ADDRESS
"MECCO"
CODE: A.B.C. 6TH EDITION

Mefford Chemical Company

Industrial Chemicals

1026 SANTA FE AVENUE
LOS ANGELES 21
CALIFORNIA

November 11, 1952

Mr. John A. Barry
1320 Arapahoe Street
Los Angeles 6, California

CHEMICALS
FOR ALL PURPOSES
INDUSTRIAL
LABORATORY
PHARMACEUTICAL
AGRICULTURAL
INSECTICIDAL

SUPPLIES FOR
BATTERY MANUFACTURERS
CANNERS
CERAMIC MANUFACTURERS
COSMETIC MANUFACTURERS
CREAMERIES AND DAIRIES
DYERS AND CLEANERS
DRUGGISTS
ENGRAVERS
ELECTROPLATERS
FOUNDRIES
GLASS MFRS.
IRON AND STEEL MILLS
LACQUER MANUFACTURERS
LAUNDRIES
LITHOGRAPHERS
MOTION PICTURE INDUSTRY
OIL REFINERS
PAINT MANUFACTURERS
PHOTOGRAPHERS
REFRIGERATION
RUBBER MFRS.
SHEET METAL WORKS
TEXTILE INDUSTRY
WATER TREATMENT
AND ALL INDUSTRIAL MANUFACTURERS

ALL QUOTATIONS F.O.B. LOS ANGELES UNLESS OTHERWISE SPECIFIED, AND SUBJECT TO CHANGE WITHOUT NOTICE.

Dear Mr. Barry:

In response to your inquiry as to purchases of Quicksilver made by Mefford Chemical Company during 1940, we can certify that we did purchase substantial quantities from Mr. W. B. Seitz who operated the Red Wing Claims 1 - 2 - 3 and 4 near Mina, Nevada. Unfortunately the exact records are not available at this date, however, we clearly recall the activity which went on at that time.

We hope that it may be possible to reactivate this property in which case we will be glad to handle your production as before.

Very truly yours,

MEFFORD CHEMICAL COMPANY

By H. Percival Chase
H. Percival Chase
Vice President in Charge
of Sales and Purchases

Addendum No. 11. Application MF-103.
Dec. 8, 1952. Pilot Mining Company.
Redwing Mercury Mine.

HPC:R

Pilot Mining Company
Redwing Mercury Mine

Addendum No. 5.

This copy of report to be attached to
Application MF-103, dated Dec. 8, 1952.

Frank R. Nichols

Addendum No. 12. Application MF-103. Dec. 8, 1952.
Pilot Mining Company.
Redwing Mine.

Letter from original locator and operator written in response to request for information.

Addendum No. 13. Application MF-103. Dec. 8, 1952.
Pilot Mining Company.
Redwing Mine.

Photostatic copies of Assay Certificates by the Nevada Mineral Laboratories dated, Sept. 9, 1943, and Ed Eisenhauer, Jr., dated Nov. 26, 1952.

Samples taken and submitted by Mr. Barry.

Addendum No. 21. Application MF-103. Dec. 8, 1952.
Pilot Mining Company.
Redwing Mine.

Photostatic copies of location notices and title deeds, as required to show ownership, as per MF-103 - Item 3(d).

14 pages attached.

CERTIFICATE OF RECORDER

AS TO CERTIFIED COPY

STATE OF NEVADA,)
) SS.
COUNTY OF MINERAL)

I, the undersigned, J. J. Connelly, the duly elected and acting County Recorder and Ex-Officio Auditor of Mineral County, State of Nevada, hereby certify that the following and annexed instruments consisting of a Certified Copies of Redwing No. 1, Redwing No. 2, Redwing No. 3 and Redwing No. 4 Mining Claims, Quitclaim Deed between W. B. Seitz and Blanche Seitz and George J. Barry, IS A FULL, TRUE AND CORRECT copy as the same appears on file and of record in my office at the County Court House at Hawthorne, County and State aforesaid,

Attest my hand, and official seal, this 10th day of November 1952.

J. Connelly
Notary Public

LOCATION CERTIFICATE

The undersigned citizen of the United States hereby declare that on the 1st day of July 1939 they discovered and located a lode bearing gold, silver or other valuable deposits and on the same day posted the notice of location at the place of discovery and named the lode the Redwing No. #3 Mining Claim. That the claim is situated in the Pilot Mountain Mining District Mineral County, Nevada, being situated about 1 miles Southerly from the McKinnon Goat Corrall. The east side line of this claim joins the west side line of the Redwing No. 2 of the Redwing group. The general course of the vein or lode is Northerly and Southerly and locator claim 1300 feet in Southerly direction and 200 feet in a Northerly direction from discovery monument together with 300 feet on each side of the center of the vein or lode. The location work done near the East side line about 200 feet south of the North East corner of the Claim.

Each of the four corners and side center monument or stake is plainly marked and named.

Dated July 1st, 1939.

Locator

W. B. Seitz

30068-Filed for Record at request of W. B. Seitz, July 26, 1939, at 30 min. past 4 o'clock P.M. Recorded in Bock11 of Mining Locations, Page 252, Records of Mineral County Nevada.

J. J. Connelly
County Recorder

CERTIFICATE OF LOCATION

The undersigned citizen of the United States hereby declare that on the 1st day of July, 1939, they discovered and located a lode bearing gold, silver or other valuable deposits and on the same day posted the notice of location at the place of discovery and named the lode or vein the Redwing No.2 Mining Claim. The claim is situated in the Pilot Mountain Mining District Mineral Co., Nevada, being situated about 1 mile southerly from the KcKinnon Goat Corrall. This claim joins and runs parallel to the west side line of the Mammoth # 3 and #2 mining claims of the Mammoth Quick group of claims. The general course of the Vein or lode is Northerly and southerly and locator claim 600 feet in a Northerly direction and 900 feet in a southerly direction from discovery monument together with 300 feet in each side of the center of the vein or lode. The location work for this claim is situated about 150 feet Northerly from the South East corner of the claim and is near the East side line of the claim. Each corner and side center monuments are properly marked and named.

Locator

Dated July 1st, 1939 W. B. Seitz

30067-Filed for Record at request of W. B. Seitz, July 26, 1939 at 30 min. past 4 o'clock P.M. Recorded in Book 11 of Mining Locations, Pages 251-252, Records of Mineral County Nevada.

J. J. Connelly

County Recorder

LOCATION CERTIFICATE

The undersigned citizen of the United States, hereby declare that on the 1st day of July 1939 they discovered and located a lode bearing gold, silver or other valuable deposits and on the same day posted the notice of location at the place of discovery and named the lode the "Redwing No. 1" mining claim. That the claim is situated in the Pilot Mountain Mining District, Mineral County Nevada about 1 mile southerly from the McKinnon Goat Corral.

This claim joins and runs paralell to the south side line of the Mammoth Quick group of claims. The general course of vein or lode is Easterly and Westerly and the locator claim 750 feet in a Easterly direction and 750 feet in a Westerly direction from discovery monument together with 300 feet on each side of the center of the vein.

Each of the four corners and side center is marked by monument and wood post properly marked to distinguish the number and name of each post. The location work for this claim is about 400 feet North Westerly from discovery monument and is near the north side line.

Locator

W. B. Seitz

Dated July 1st, 1939

30066-Filed for Record at request of W. B. Seitz, July 26, 1939 at 30 min past 4 o'clock P.M. Recorded in Book 11 of Mining Locations, page 251, Records of Mineral County Nevada.

J.J.Connelly

County Recorder

CERTIFICATE OF LOCATION

THE UNDERSIGNED, hereby certify that they have located a mining claim in the Pilot Mountain, Mining District, County of Mineral, State of Nevada, on a vein or lode, known as the Redwing No. 4.

The general course of said lode or vein, as near as it may be described, is Northerly and Southerly. The name of the locator W. B. Seitz. The said claim was located on the 1st day of July, A.D. 1939 and is described in respect to the South end of this claim joins and runs paralell to the North end line of Redwing No. 2 mining claim.

The locator claims Fifteen hundred feet in length along the course of said vein or lode 200 southerly and 1300 northerly from the point of discovery with a width of 300 feet on each side of the center of the vein or lode along the entire length of said claim.

The location of the discovery shaft work is about 60 feet Easterly from discovery monument and about 40 feet from cabin, and the location and description of each corner with the markings thereon are as follows: The northeast corner is marked by a post 4 inches square 4 feet high and inscribed Northeast corner of The Redwing No. 4; the Southeast corner is marked by a post 4 inches square 4 feet high and inscribed Southeast Corner of the Redwing No. 4; the Northwest corner is marked by a post 4 inches square 4 feet high and inscribed Northwest corner of Redwing No. 4 the Southwest corner is marked by a post 4 inches square 4 feet high and inscribed Southwest corner of The Redwing No. 4. There is also a post 4 inches square at the center of each side line. The discovery work has been done and the location work completed since----------.

Dated July 1st, A.D. 1939.

30069--Filed for Record at request of W. B. Seitz, July 26, 1939 at 30 min. past 4 o'clock P. M. Recorded in Book 11 of Mining Locations, Pages 252-3, Records of Mineral County Nevada.

J. J. Connelly

County Recorder.

QUITCLAIM DEED

THIS INDENTURE, made this 8th day of October, 1941, by and between W. B. SEITZ and BLANCHE SEITZ, husband and wife, parties of the first part, and GEORGE J. BARRY, party of the second part:

W I T N E S S E T H:

That the said parties of the first part, for and in consideration of the sum of One Dollar ($1.00) lawful money of the United States, to them in hand paid by the said party of the second part, receipt whereof is hereby acknowledged, does by these presents, remise, release, convey and forever quitclaim unto the party of the second part, and to his heirs and assigns, all their right, title and interest in and to those certain mining claims situated in the Pilot Mountain Mining District, Mineral County, State of Nevada, bounded and more particularly described as follows, to-wit:

Redwing No. 1, Redwing No. 2, Redwing No. 3 and Redwing No. 4, located about one mile southerly from the McKinnon goat corral in Dunlop Canyon, and approximately 10 miles east of the town of Mina, Mineral County, Nevada.

TOGETHER with all the dips, spurs and angles, and also all the metals, ores, gold silver and quicksilver bearing rock, quartz and earth therein, and all the rights, privileges and franchises therein incident; and also all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, and the rents, issues and profits thereof; and also all the estate, right, title, interest, property, possession, claim and demand whatsoever, as well in law as in equity of the said parties of the first part, of, in or to the premises, and every part and parcel thereof, with the appurtenances.

TO HAVE AND TO HOLD, all and singular the said premises, together with the appurtenances and privileges thereto incident, unto the said party of the second part, his heirs and assigns forever.

IN WITNESS WHEREOF, the parties of the first part have hereunto

set their hands and seals the day andyear first above written.

W. B. Seitz

Blanche Seitz

STATE OF NEVADA)
) SS.
COUNTY OF NYE)

On this 8th day of October, 1941, personally appeared before me, LOWELL DANIELS, a Notary Public, in and for the County of Nye, State of Nevada, W. B. SEITZ and BLANCHE SEITZ, known to me to be the persons described in and who executed the foregoing instrument, and 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 Nye, State of Nevada, the day and year in this certificate first above written.

SEAL

Lowell Daniels
Notary Public, Nye County, Nevada.

My Commission Expires:
June 29, 1942.

35769--Filed for Record at request of George J. Barry July 31, 1943 at 30 min. past 9 o'clock A.M. Recorded in Book 11 of Deeds Pages 260-261 Records of Mineral County Nevada.

J. J. Connelly
County Recorder.

NOTICE OF LOCATION

Notice is Hereby Given that the undersigned hereby locates — and claim — the following described piece of mineral bearing ground as a Quartz Mining claim.

From this discovery monument 100 feet in a Southerly direction, and 1400 feet in a Northerly direction and three hundred feet on each side of the middle of the vein.

This claim sidelines the Red Wing No. 2 on the East and sidelines the Red Wing No. 1 on the South

The general course of the vein or ledge is northerly and Southerly and the size of the claim is 1500 feet long by 600 feet wide.

This claim shall be known as the Red Wing No. 5

situated in Pilot Mineral Mining District County, Nevada.

Located this 21 day of November 1952

John A. Barry

Locator

Witness:
Fred O. Gilbert
Homer L. Gilbert

THIS IS NOT A RECORDING NOTICE AND CANNOT BE SO USED LEGALLY. LOCATION WORK MUST BE RECORDED BY USE OF "CERTIFICATES OF LOCATION"

PRINTED AND FOR SALE BY RENO PRINTING CO., 129-131 N. CENTER ST., RENO, NEVADA

NOTICE OF LOCATION

Notice is Hereby Given that the undersigned hereby locates — and claim — the following described piece of mineral bearing ground as a Quartz Mining claim.

From this discovery monument 100 feet in a Southerly direction, and 1400 feet in a Northerly direction and three hundred feet on each side of the middle of the vein.

This claim sidelines Red Wing No. 5 on the East and sidelines Red Wing No. 1 on the South

The general course of the vein or ledge is northerly and Southerly and the size of the claim is 1500 feet long by 600 feet wide.

This claim shall be known as the Red Wing No. 6

situated in Pilot Mineral Mining District County, Nevada.

Located this 21 day of November 1952

John A. Barry

Locator

Witness:
Fred O. Gilbert
Homer L. Gilbert

THIS IS NOT A RECORDING NOTICE AND CANNOT BE SO USED LEGALLY. LOCATION WORK MUST BE RECORDED BY USE OF "CERTIFICATES OF LOCATION"

PRINTED AND FOR SALE BY RENO PRINTING CO., 129-131 N. CENTER ST., RENO, NEVADA

NOTICE OF LOCATION

Notice is Hereby Given that the undersigned hereby locates — and claim — the following described piece of mineral bearing ground as a Quartz Mining claim.

From this discovery monument 750 feet in a Easterly direction, and 750 feet in a Westerly direction and three hundred feet on each side of the middle of the vein.

This claim sidelines the Red Wing No. 1 on the South and joins Red Wing No. 3 South End Line on the South

The general course of the vein or ledge is Easterly and Westerly and the size of the claim is 1500 feet long by 600 feet wide.

This claim shall be known as the Red Wing No. 7

situated in Pilot Mineral Mining District County, Nevada.

Located this 22 day of November 1952

John A. Barry

Locator

Witness:
Fred O. Gilbert
Homer L. Gilbert

THIS IS NOT A RECORDING NOTICE AND CANNOT BE SO USED LEGALLY. LOCATION WORK MUST BE RECORDED BY USE OF "CERTIFICATES OF LOCATION"

PRINTED AND FOR SALE BY RENO PRINTING CO., 129-131 N. CENTER ST., RENO, NEVADA

49235

Filed for Record at request of
Fred O. Gilbert
November 28, 1952 at 40
min. past 10 o'clock a M.,
Recorded in Book 14 of
Mining Locations
Page 413 Records of
Mineral County Nevada
J. Donnelly
County Recorder
By _____ Deputy

49235

Filed for Record at request of
Fred O. Gilbert
November 28, 1952 at 40
min. past 10 o'clock a M.,
Recorded in Book 14 of
Mining Locations
Page 413 Records of
Mineral County Nevada
J. Donnelly
County Recorder
By _____ Deputy

49235

Filed for Record at request of
Fred O. Gilbert
November 28, 1952 at 40
min. past 10 o'clock a M.,
Recorded in Book 14 of
Mining Locations
Page 413-414 Records of
Mineral County Nevada
J. Donnelly
County Recorder
By _____ Deputy

THIRD AMENDED CERTIFICATE

OF

LIMITED PARTNERSHIP

FILED
NOV 10 1952
MINERAL COUNTY
/s/ A. J. Park
CLERK
/s/ Martha G. Barlow
DEPUTY

KNOW ALL MEN BY THESE PRESENTS:

1. That, that certain limited partnership heretofore formed as of the 7th day of August, 1942, and twice amended, is now further amended, ppublished and declared as follows:

2. That the name of the said partnership shall be "PILOT MINING COMPANY"

3. That the character of the business to be transacted by said partnership is that of mining, and that the business of said partnership will be conducted for the purpose of acquiring and operating mines and mining properties.

4. That the principal place of business shall be located at the Pilot Mountain Mining District, Mineral County, Nevada.

5. That John A. Barry be and he is hereby substituted as General Partner in the place and stead of George J. Barry, and that M. H. Nystrom is hereby substituted as a Limited Partner in the place and stead of said John A. Barry. That the said John A. Barry succeeds to all of the right, title and interest in said partnership of the said George J. Barry, and that the said M. H. Nystrom succeeds to all of the right, title and interest in said partnership heretofore held by said John A. Barry as a Limited Partner.

6. That said John A. Barry residing at 1320 Arapahoe Street Los Angeles, California, shall be the General Partner and said M. H. Nystrom residing at 12oo South Hoover Street, Los Angeles, California, shall be a Limited Partner.

7. That the term for which the partnership shall exist shall be five years from and after the date of this amendment unless voluntarily

dissolved, or dissolution occur by operation of law.

8. That the said General Partner and the Limited Partner have succeeded to all of the property rights of the said partnership and especially to all right, title and interest in and to those certain mining claims situated in thePilot Mountain Mining District, Mineral County, Nevada, and designated as: Redwing 1, 11, 111, and 1V, and the said George J. Barry does hereby assign all of his right, title and interest in and to said mining claims to the said partnership.

9. The partners shall have the following interests in the partnership assets and earnings:

John A. Barry, General Partner	87 1/2 per cent
M. H. Nystrom, Limited Partner	12 1/2 per cent

10. That the admission of any further limited partners is not contemplated.

11. Periodic accounting shall be arranged as follows:

(a): At the end of each calendar year a full and accurate Inventory shall be prepared and the assets, liabilities and income both gross and net shall be ascertained, and the net profit or net loss of the partnership shall be fixed and determined;

(b): The net profit, if any shall be divided and distributed in accordance with the provisions of paragraph "9" hereof.

12. That at the termination of this partnership by the expiration of it's term, or by reason of any other cause, a full and accurate inventory shall be prepared and the assets, liabilities and income, both gross and net, shall be ascertained; the debts of the partnerhip shall be discharged and all monies and other assets of the partnership then remaining shall be divided between the partners in the proportion as set forth in paragraph "9" hereof.

IN WITNESS WHEREOF THE parties have hereunto set their hands this 14th day of October, 1952.

/s/ George J. Barry
George J. Barry, retiring General Partner

/s/ John A. Barry
John A. Barry, General Partner

/s/ M. H. Nystrom
M. H. Nystrom, Limited Partner

STATE OF CALIFORNIA)
) ss
COUNTY OF LOS ANGELES)

On this 14th day of October, 1952, before me, GEORGE M. PIERSON, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared, GEORGE J. BARRY, JOHN A. BARRY and M. H. NYSTROM, known to me to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

/s/ Geo. M. Pierson
Notary Public in and for the County of Los Angeles, State of California

My Commission Expires Nov. 30, 1954

(Impression of Notary Seal.)

Recorded for record in the Office of the County Clerk and Treasurer, Mineral County, Hawthorne, Nevada, upon the request of John A. Barry. Said recording took place on November 12th., A. D., 1952 at 4:54 o'clock p. m.

CERTIFICATE OF CLERK

STATE OF NEVADA
COUNTY OF MINERAL } ss.

I, A. J. PARK, County Clerk of Mineral County State of Nevada, and Ex-Officio Clerk of the District Court of the Fifth Judicial District of the State of Nevada, in and for the County of Mineral, do hereby certify the foregoing and annexed to be a correct copy of Third Amended Certificate of Limited Partnership of the Pilot Mining Company filed for record in this Office on November 10, 1952; and recorded in Volume One, Miscellaneous Register, Mineral County, Nevada, on Pages Four (4) through Seven (7).

as the same appears on file and of record in my office at Hawthorne, County and State aforesaid.

Attest my hand and seal of said court this 14th day of November A. D. 1952

A. J. Park, Clerk

By Martha J. Larson, Deputy

EXPLANATION

Holocene and Recent — QUATERNARY
- Gravel and desert wash

Pliocene(?) and Miocene(?) — TERTIARY
- Basalt

Upper Miocene(?) — TERTIARY
- Rhyolite and andesite

Upper Miocene — TERTIARY
- Esmeralda formation

JURASSIC OR CRETACEOUS
- Granodiorite and quartz diorite

TRIASSIC
- Red sandstone
- Slate and limestone
- Conglomerate and sandstone; limestone beds near top
- Chert, tuff, and greenstone

- Fault

MINES AND PROSPECTS

1 Easter
2 Wurtzler
3 Mina (Booth-Wardell)
4 Lost Steers
5 Red Devil (Drew)
6 Ramrod
7 RedWing
8 Bright Beauty

Topography from U.S.G.S. maps of Hawthorne and Tonopah quadrangles

Scale 1:25,000

1 ½ 0 1 2 3 4 5 Miles

Contour interval 200 feet

Geology by H.G. Ferguson and S.H. Cathcart

GEOLOGIC MAP OF THE PILOT MOUNTAINS, NEV.

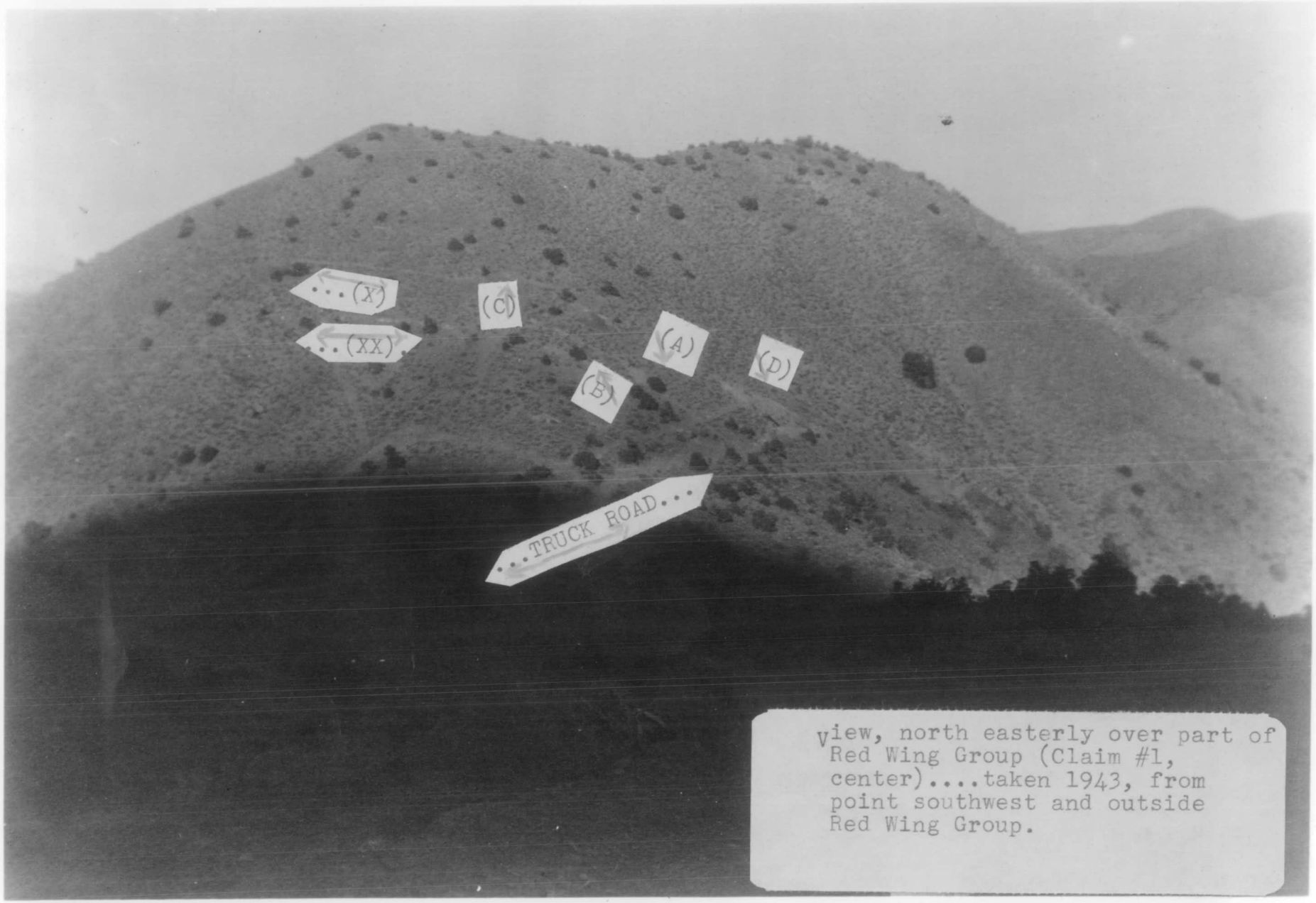
uMEa-2508

Addendum No. 9. Application MF-103. Dated Dec. 8, 1952.
Geologic Map. Pilot Mountain District.
Pilot Mining Company. Redwing Mercury Mine.

DMEA-2808

Addendum No. 14. Application MF-103. Dec. 8, 1952.
Pilot Mining Company.
Redwing Mine.

Photo of area around Redwing No. 1
Shaft with Superimposed Sketch of
veins and test pits, by J. Barry.

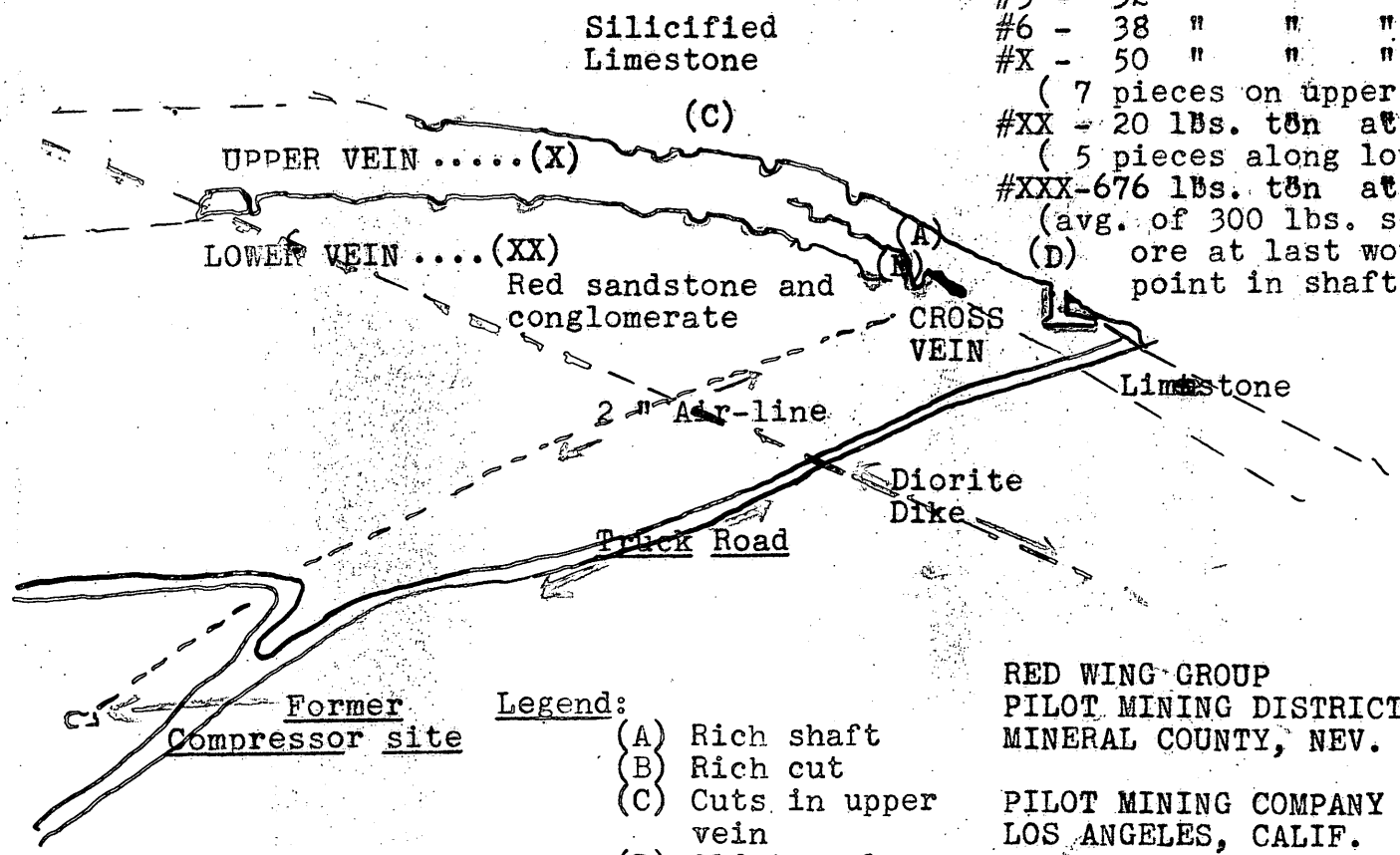


view, north easterly over part of Red Wing Group (Claim #1, center)....taken 1943, from point southwest and outside Red Wing Group.

EST. PRODUCTION of 75 flasks produced about equally from shaft(D), with cuts on upper vein (X); and rich cut(A) with cuts along lower veir (XX); plus remainder from misc. points including cuts out of this picture, to the left or north.

ASSAYS, marked as indicated in copies shown elsewhere and lettered here at points where taken from veins.....

#1 - 600 lbs. ton - at A
#2 - 680 " " " A-B
#3 -1200 " " " A
#4 - 269 " " " B
#5 - 32 " " " C
#6 - 38 " " " D
#X - 50 " " " X
(7 pieces on upper vein)
#XX - 20 lbs. ton at XX
(5 pieces along lower vein)
#XXX-676 lbs. ton at A
(avg. of 300 lbs. selected ore at last working point in shaft)



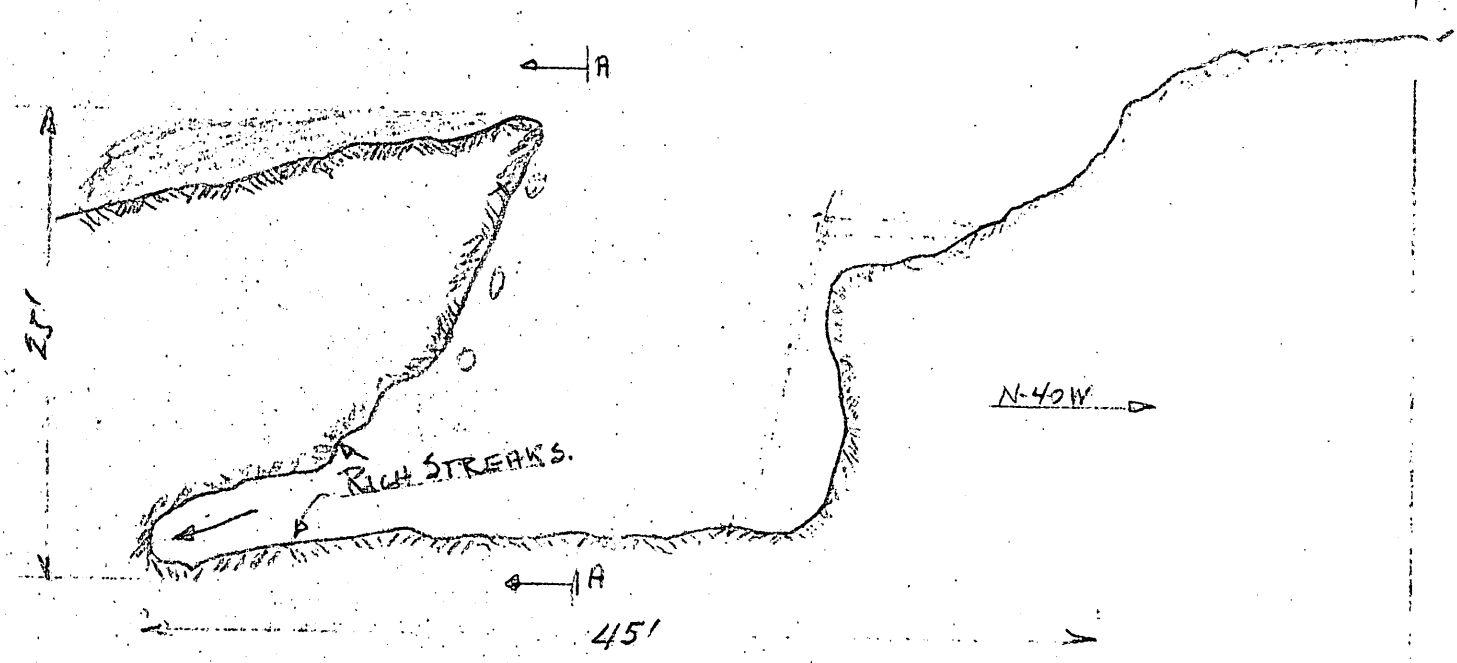
Legend:
(A) Rich shaft
(B) Rich cut
(C) Cuts in upper vein
(D) Old tunnel
(X) Series of cuts in upper vein
(XX) " " " " lower vein
(XXX) Rich shaft (same as A)

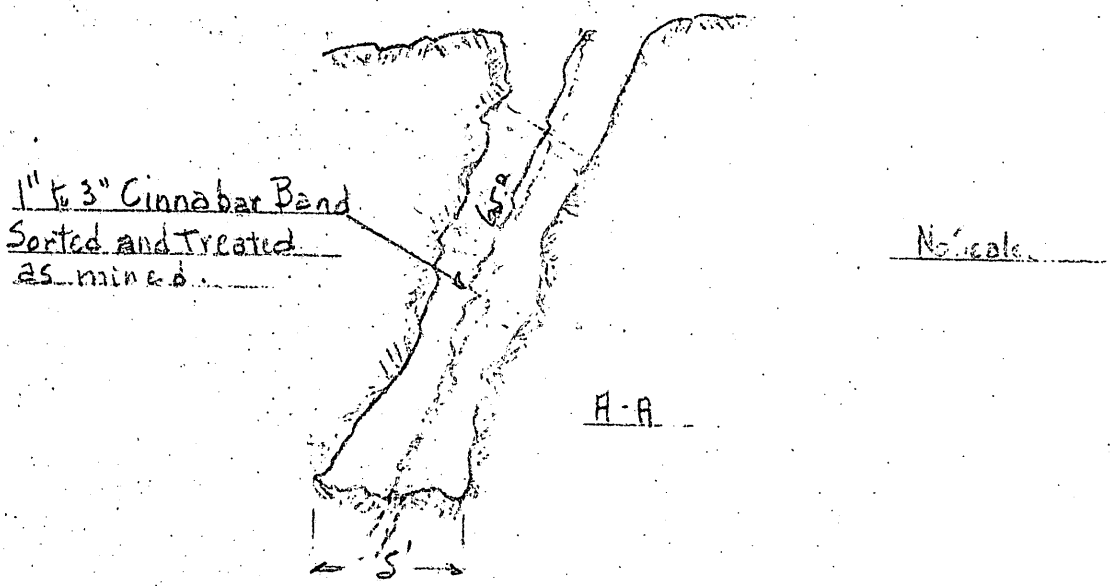
RED WING GROUP
PILOT MINING DISTRICT
MINERAL COUNTY, NEV.

PILOT MINING COMPANY
LOS ANGELES, CALIF.

WMEA-2808

Addendum No. 7. Application MF-103. Dec. 8, 1952.
Section View of Existing Work at No. 1 Shaft.



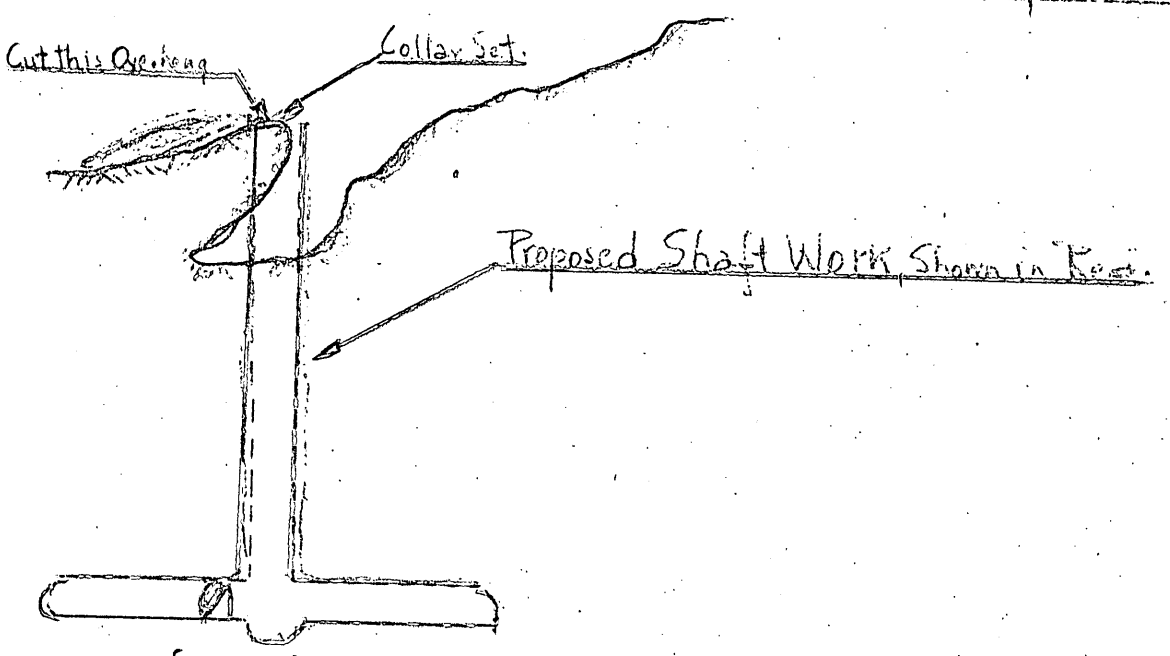


Sketch of Redwing No. 1 Shaft.
REDWING No. 1 CLAIM.

PILOT MINING COMPANY
REDWING MINE
DEC. 1, 1952 WICKS

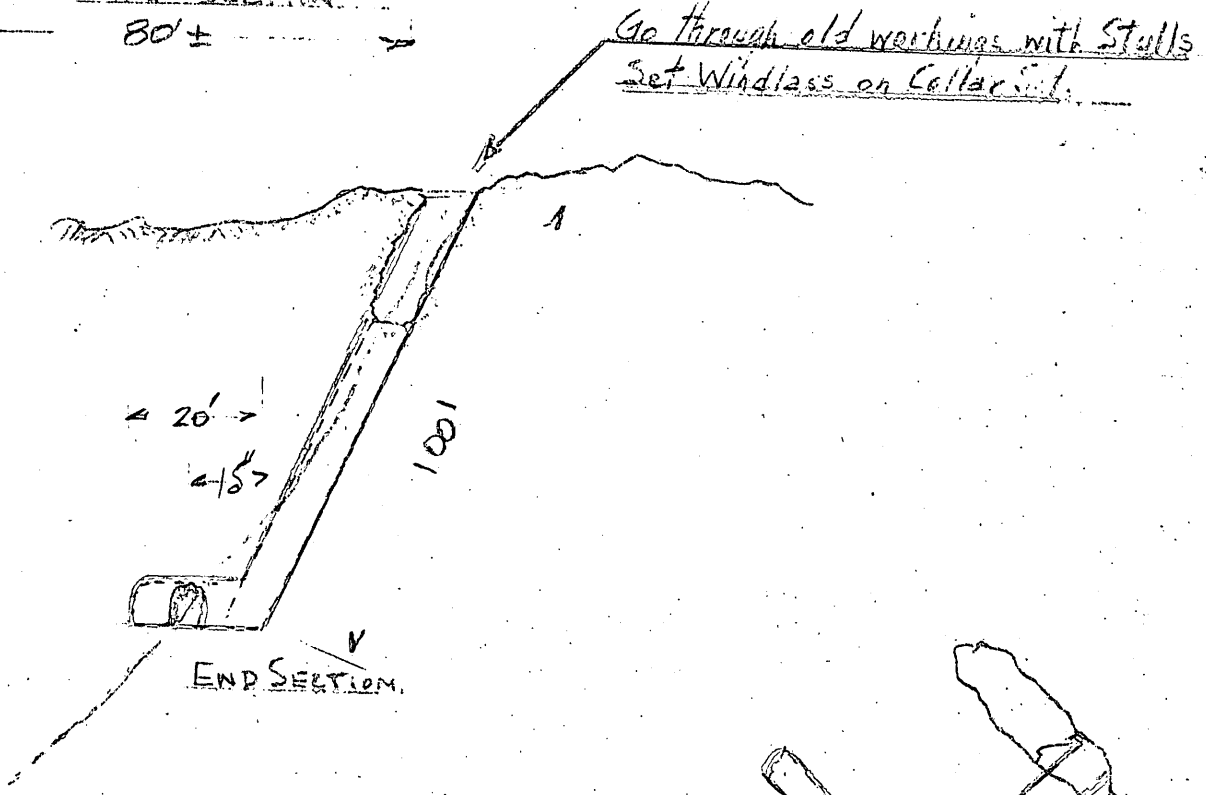
Addendum No. 6. Application MF-103. Dec. 8, 1952.
Plan and section view of Proposed work at No. 1 Shaft

DMEA-2808

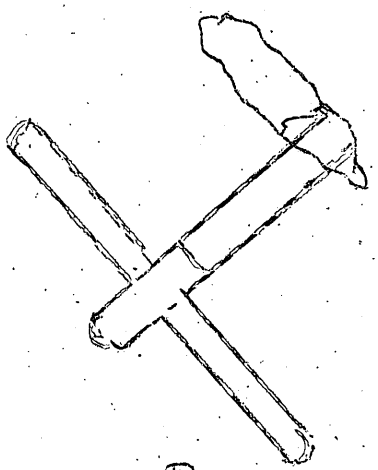


SIDE SECTION.

80' ±



END SECTION.



PLAN VIEW

PILOT MINING COMPANY
REDWING MINE
DEC. 1, 1952
WICKS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
224 New Customhouse
Denver 2, Colorado

OFFICIAL BUSINESS

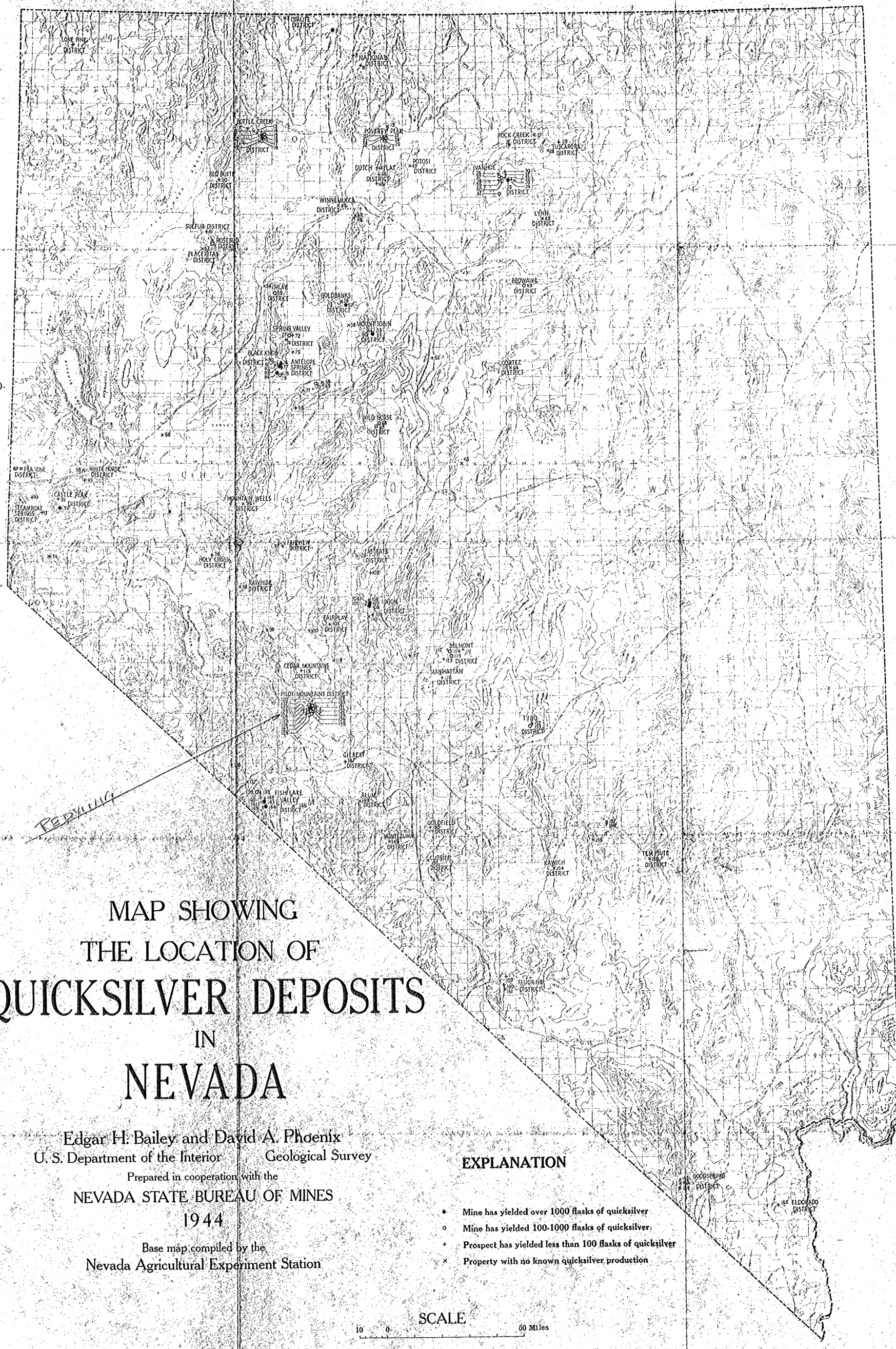
PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE $300
(PMGC)

C. O. MITTENDORF, ACTING ADMINISTRATOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
INTERIOR BUILDING
WASHINGTON 25, D. C.

6 maps enclosed
12/-2/52

NUMERICAL KEY

1. Antelope Prospect.
2. Disaster Peak Property.
3. Cordero Mine.
4. Buckskin Peak Mine.
5. Canyon Creek Prospect.
6. Stall Quicksilver Prospect.
7. Franklin-Keeney Property.
8. Rogers-Burnison Property.
9. Hagan-Hegan Property.
10. Anthill Mine.
11. McAdoo Mine.
12. Red Ore Mine.
13. Niebuhr Mine.
14. B. & B. Prospect.
15. White Peaks Mine.
16. Baldwin Mine.
17. Blue Can Mine.
18. Birthday Mine.
19. Holt Property.
20. Prentiss Property.
21. Wholey's Quicksilver Mine.
22. Turillas Property.
23. Snowdrift Property.
24. Hapgood Mine.
25. Cahill Mine.
26. Rock Creek Prospect.
27. Teapot Prospect.
28. Berry Creek Group.
29. Red Bird Group.
30. Rimrock Group.
31. Homestake Group.
32. Lark Group.
33. Hatter Property.
34. Red Boy Group.
35. Butte Quicksilver Mine.
36. Sheep Corral Prospect.
37. Hunt Property.
38. Coleman Group.
39. Pangburn Property.
40. Jackson and Surprise Claims.
41. Silver Cloud Mine.
42. Lynn District.
43. Getchell Gold Mine.
44. Dutch Flat Mine.
45. Last Chance Prospect (Humboldt County).
46. Red Devil Prospect.
47. Gayer-Moo Property.
48. Plymouth Property.
49. Winnemucca District.
50. Rattlesnake Canyon Prospect.
51. Nevada Sulphur Company Mine.
52. Rosebud District.
53. Placeritas District.
54. Humboldt Hot Springs Deposit.
55. Eldorado Mine.
56. Pronto Plata Property.
57. Goldbanks Quicksilver Mine.
58. Oldtimer Property.
59. Last Chance Prospect.
60. North Fork Property.
61. Mount Tobin.
62. Warm Springs Prospect.
63. Beowawe Mine.
64. Rossi Property.
65. Rast Property.
66. McCoy Mine.
67. Wild Horse Mine.
68. Victory Property.
69. Storm Property.
70. Roman Mine.
71. Black Dyke Property.
72. Hillside Mercury Prospect.
73. King George Mine.
74. Walker Mine.
75. Alpine Prospect.
76. Red Bird Mine.
77. S. & J. Mine.
78. Crawford Prospect.
79. Montgomery Mine.
80. Paymaster Prospect.
81. Bunker Hill Group.
82. Good Spot Prospect.
83. Juniper Mine.
84. Pershing Mine.
85. Rosebud Prospect.
86. Erway Property.
87. Peavine District.
88. White Horse District.
89. Taylor-Branch Prospect.
90. Wheeler Ranch Prospect.
91. Washington Hill Prospect.
92. Castle Peak Mine.
93. Steamboat Springs Mine.
94. Valley View Property.
95. Mountain Wells District.
96. Cinnabar Hill Mine.
97. Fairview District.
98. Stockton Property.
99. Poinsettia Property.
100. Finger Rock Prospect.
101. Scheebar Mine.
102. War Cloud Property.
103. Eastgate District.
104. Indian Johnnie Dick Property.
105. Two Injun Property.
106. Yellow Cat Mine.
107. Mercury Mining Company Mine.
108. Nevada Cinnabar Mine.
109. San Pedro Mine.
110. Humphrey Property.
111. Flower Quicksilver Mine.
112. Wild Cat Prospect.
113. Mariposa Canyon Prospect.
114. Senator Mine.
115. Van Ness Mine.
116. White Caps Gold Mine.
117. Horse Canyon Mine.
118. Southview Property.
119. Lou Prospect.
120. Fault Line Prospect.
121. Keg Prospect.
122. Mammoth Mine.
123. Redwing Prospect.
124. Hitt Mine.
125. Allen Mine.
126. Hasbrouck Property.
127. Reward Mine.
128. Black Lizard Prospect.
129. Mina Development Company Mine.
130. Drew Mine.
131. Lakeview Mine.
132. Cardinal Mine.
133. Lost Steer Mine.
134. Inman Mine.
135. Betty Mine.
136. Noguez Prospect.
137. Montgomery Summit Property.
138. Wild Rose Mine.
139. O. K. Property.
140. Red Rose Prospect.
141. Red Cloud Property.
142. F. & L. Mine.
143. B. & B. Mine.
144. Red Rock Mine.
145. Container Mine.
146. Riek Property.
147. Castle Rock Prospect.
148. Alum District.
149. Montezuma Prospect.
150. Diamonfield Property.
151. Ralston Prospect.
152. M. & M. Mine.
153. A. & B. Mine.
154. Kawich District.
155. Oswell Property.
156. Black Hawk Mine.
157. Fallini Property.
158. Tem Piute District.
159. Thompson Property.
160. Tip Top Mine.
161. Harvey Mine.
162. Red Cloud Gold Mine.
163. Yellow Pine Lead-Zinc Mine.
164. Kirby Lead-Zinc Mine.
165. Patsy Prospect.



MAP SHOWING THE LOCATION OF QUICKSILVER DEPOSITS IN NEVADA

Edgar H. Bailey and David A. Phoenix

U. S. Department of the Interior Geological Survey

Prepared in cooperation with the

NEVADA STATE BUREAU OF MINES

1944

Base map compiled by the

Nevada Agricultural Experiment Station

EXPLANATION

- • Mine has yielded over 1000 flasks of quicksilver
- ○ Mine has yielded 100-1000 flasks of quicksilver
- + Prospect has yielded less than 100 flasks of quicksilver
- × Property with no known quicksilver production

SCALE

10 0 50 Miles

Contour Interval 1000 Feet

ALPHABETICAL KEY

A. & B. Mine ... 153
Allen Mine ... 125
Alpine Prospect ... 75
Alum District ... 148
Antelope Prospect ... 1
Anthill Mine ... 10

Baldwin Mine ... 16
B. & B. Prospect ... 14
B. & B. Mine ... 143
Berry Creek Group ... 28
Betty Mine ... 135
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Cahill Mine ... 25
Canyon Creek Prospect ... 5
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Castle Rock Prospect ... 147
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Cordero Mine ... 3
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Eastgate District ... 103
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Hitt Mine ... 124
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Hunt Property ... 37

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McCoy Mine ... 66
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Mina Development Company Mine ... 129
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Mountain Wells District ... 95
Mount Tobin Mine ... 61

Nevada Cinnabar Mine ... 108
Nevada Sulphur Company Mine ... 51
Niebuhr Mine ... 13
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North Fork Property ... 60

O. K. Property ... 139
Oldtimer Property ... 58
Oswell Property ... 155

Pangburn Property ... 39
Patsy Prospect ... 165
Paymaster Prospect ... 80
Peavine District ... 87
Pershing Mine ... 84
Placeritas District ... 53
Plymouth Property ... 48
Poinsettia Property ... 99
Prentiss Property ... 20
Pronto Plata Property ... 56

Ralston Prospect ... 151
Rast Property ... 65
Rattlesnake Canyon Prospect ... 50
Red Bird Group ... 29
Red Bird Mine ... 76
Red Boy Group ... 34
Red Cloud Gold Mine ... 162
Red Cloud Property ... 141
Red Devil Prospect ... 46
Red Ore Mine ... 12
Red Rock Mine ... 144
Red Rose Prospect ... 140
Redwing Prospect ... 123
Reward Mine ... 127
Riek Property ... 146
Rimrock Group ... 30
Rock Creek Prospect ... 26
Rogers-Burnison Property ... 8
Roman Mine ... 70
Rosebud District ... 52
Rosebud Prospect ... 85
Rossi Property ... 64

S. & J. Mine ... 77
San Pedro Mine ... 109
Scheebar Mine ... 101
Senator Mine ... 114
Sheep Corral Prospect ... 36
Silver Cloud Mine ... 41
Snowdrift Property ... 23
Southview Property ... 118
Stall Quicksilver Prospect ... 6
Steamboat Springs Mine ... 93
Stockton Property ... 98
Storm Property ... 69

Taylor-Branch Prospect ... 89
Teapot Prospect ... 27
Tem Piute District ... 158
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Tip Top Mine ... 160
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Valley View Property ... 94
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War Cloud Property ... 102
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Washington Hill Prospect ... 91
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Wild Horse Mine ... 67
Wild Rose Mine ... 138
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Yellow Cat Mine ... 106
Yellow Pine Lead-Zinc Mine ... 163