400

IN REPLY REFER TO:

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

RECEIVED
SEP 7 1956

Sept. 6, 1956

Re: DMEA A3 6
United States Copper Co.
Shaley property
Humboldt Co., Nev.
$13,700.00 - Mercury

Memorandum

To: W. A. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team office report and a memorandum.

The applicant requested assistance in exploring 2 fault zones by sinking crosscutting and drifting. Little supporting evidence of the presence of mercury was given.

The property was the subject of a previous application, DMEA 2307, 1951. That application was denied and as little or no work has been done since, it is deemed unnecessary to re-examine the property and a denial is again recommended.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

NENelson:bkr
G 9/6/56

cc: J. W. Hennington, 3623
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Docket file

September 11, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $15,070
Docket No. DMEA 4376, Mercury
United States Copper Company
Longhorn and Dexter Claims (Wholey property)
Humboldt County, Nevada

Denial of the subject application is recommended by this Division on the basis of the following information:

John C. Wholey, owner of the above-mentioned property, made an application for exploration assistance on December 28, 1951. The property was examined on May 5, 1952, by H. L. Sobel and E. H. Bailey, Geological Survey, and on the basis of this report the application was denied. The Field Team advises us that, as indicated by the maps submitted with the United States Copper Company's application, no appreciable work has been done since the prior examination, and a re-examination is not believed to be justified. This Division concurs with this conclusion.

Applicant: United States Copper Company (a Nevada corporation)
421 Atlas Building
Salt Lake City, Utah

Property: Property consists of five lode mining claims, located in secs. 10 and 15, T. 40 N., R. 40 E., M. D. B. and M., Humboldt County, Nevada. Recorded in the Court House at Winnemucca, Nevada, as follows:

Name	Book No.	Page No.
Longhorn	A-1 of Notices	129
Longhorn No. 1	A-1 " "	417
Longhorn No. 2	A-1 " "	567
Longhorn No. 2 S. Extension Fraction	A-2 " "	561
Dexter	A-1 " "	415

Ownership: The property is owned by John C. Wholey, Winnemucca, Nevada, and is under lease and option to the United States Copper Company, dated April 18, 1956.

Geology: Mercury in the form of cinnabar occurs in fault zones through thinly bedded sandy limestones as filling and limestone replacements. The replacement zones are small, though it is possible moderate size ore zones may be found as in the adjoining Cahill mine.

Workings: The workings consist of a crosscut adit and about 160 feet of drifting and a small amount of raising on mineral showings.

Past Production: From 14 to 20 flasks of mercury have been produced from the property, including 14 flasks produced in 1941 by Thos. L. Chapman.

Comments and Conclusions: As no appreciable work has been done since the examination by our geologists in 1952, the Field Team does not believe that another examination is necessary and recommends denial. Miss Helena M. Meyer, Bureau of Mines, concurred in the denial in 1952. N. E. Nelson, Geological Survey, James W. Pennington, Bureau of Mines, and Thos. L. Chapman concur in the Field Team's conclusions.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

cc: Docket
Code 400
Oper. Committee
Adm. Read. File

TLChapman/ls
9/11/56

400

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

RECEIVED
SEP 11 1956

Date September 11, 1956

DMEA Docket No. 4376
DMEA Contract No.
Commodity Mercury
Name of applicant United States Copper Co.
Name of property LongHorn & Dexter Claims
Location of property Humboldt County, Nev.
Estimated cost of project $15,070100

Copy retained 400

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Field Team Memorandum
(Application, Field Team Report, etc.)

1. Date of subject document 8/24/56. 2. Date received by reviewer: 9/6/56.

3. Prior reports on this property known to reviewer: Yes ☐, No ☐.

4. Prior reports on nearby properties known to reviewer: Yes ☐, No ☐.

5. Information available on past production: Yes ☐, No ☐.

6. Other pertinent factors known to reviewer: Yes ☐, No ☐.

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location ☐
   b. Ownership ☐
   c. Evidence of mineralization ☐
   d. Geology ☐
   e. Proposed exploration method ☐
   f. Alternate exploration method ☐
   g. Costs ☐
   h. _____ ☐

9. Action advised:
   a. Obtain information from applicant ☐
   b. Refer to Field Team ☐
   c. Denial ☒
   d. Agree with Field Team ☒
   e. Disagree with Field Team ☐
   f. Suggest alternate plan ☐
   g. Request another examination ☐
   h. Approval ☐
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

400

IN REPLY REFER TO:

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

RECEIVED
JUL 13 1956

July 12, 1956

Copy retained 400

Re: DMEA 4376
United States Copper Co.,
Holey property
Humboldt Co., Nev.
$13,700 - Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

The applicant requests assistance in exploring 2 fault zones by (a) sinking 100 feet in a fault zone showing in an adit, (b) crosscutting 60 feet to a second zone, and (c) driving 50 feet each way (east and west) from the winze bottom and 50 feet each way from the crosscut in the second fault.

Few data are given, such as samples, assays, etc., that afford a reason for doing the work in the faults except that a vertical fractured zone on the adjacent property (Sonoma?) has been very productive, and from scattered surface showings on the Holey ground, 14 flasks of mercury were produced.

Mention is made of several hundred feet of drifting, raises and crosscuts. In two of the openings two faults are drifted upon for 120 and 130 feet. That they are ore-bearing is not said, but such is inferred because from the center of the 130-foot fault segment the winze is to be sunk, from which a crosscut is to be driven to the projected extension of the 120-foot segment of the second fault.

The relationship of the underground workings to workings in the adjoining property (Sonoma) should be provided, along with production figures of some sort showing that work in the adjoining ground has been worth while and, by long long inference, work in the referenced property might also be worth while.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

NENelson:btr
G 7/12/56

N. E. Nelson

cc: J. W. Pennington, 3623
Director's reading file (4240)
Branch reading file (4212)
DMEA (3)

Chron. file. Docket file.

JUL 2 6 1956

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4376, Mercury
United States Copper Company
Longhorn and Dexter claims
Humboldt County, Nevada

Dear Mr. Ricker:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of two memoranda dated July 12, 1956, by J. W. Pennington, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the project, are enclosed.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

P. F. Yopes

Member, Bureau of Mines

Member, Geological Survey

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
Thor Kiilsgaard, USGS
J. W. Pennington, USBM
FT, Region 2

ADMcMahon/ls
7/23/56

400

JUL 2 6 1956

United States Copper Company
421 Atlas Building
Salt Lake City, Utah

Re: Docket No. DMEA-4376, Mercury
Longhorn and Dexter claims
Humboldt County, Nevada

Gentlemen:

The above-docketed application for exploration assistance for mercury ores has been reviewed by the Washington office of Defense Minerals Exploration Administration and referred to Mr. Spangler Ricker, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

Any assistance that you can give the members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
J. W. Pennington, USBM
FT, Region 2

ADMcMahon/ls
7/20/56

4CN

RECEIVED
JUL 13 1956

July 12, 1956

4376

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: Commodity Industry Analyst, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4376 (mercury), United States Copper Company, Whaley Ground, Humboldt County, Nevada, $15,070.00

The applicant proposes to explore the property by 100 feet of winze and 260 feet of drifting and crosscutting at an estimated total cost of $15,070.00.

According to the applicant and Bureau of Mines records, production from the property has totaled 14 flasks. This production came from an estimated 13 tons of ore with an apparent assay of 27 pounds of mercury per ton.

I believe that an examination of the property and evaluation of the proposed program are necessary and recommend that the application be referred to the Field Team.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Killingsord, U.S.G.S.
R. W. Gaskan
F i l e s

400

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

COPY

1605 Evans Avenue
Reno, Nevada

August 29, 1956

MEMORANDUM

WSM

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D. C.

From: ExecutiveOfficer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4376 (Mercury)
United States Copper Company
Longhorn and Dexter Claims
Humboldt County, Nevada

Reference is made to your letter of July 26, 1956, requesting a field examination of subject property.

I am enclosing four copies of a memorandum from Roscoe Smith based on which I do not believe a re-examination is necessary. The property was examined under Docket No. DMEA-2307 and a denial of exploration loan was recommended.

I discussed the application by telephone with Mr. Robert D. Morris, of the United States Copper Company, and additional work in the area where the exploration work is proposed has not been done since the examination by Bailey and Sobel in 1952. This is confirmed by comparing the map of Bailey and Sobel with the map presented in the application.

Based on information available, I believe the loan application should be denied because there is no evidence to support the probability of a significant discovery.

We shall be pleased to re-examine the property if you think it justified.

/s/ S. RICKER
S. Ricker

Encls.

Reviewed by
DMEA OPERATING COMMITTEE
9/7/56
(Date)

1605 Evans Avenue
Reno, Nevada

August 24, 1956

Memorandum

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

From: Roscoe Smith, DMEA Field Team, Region II

Subject: Review of Application
Docket DMEA-4376 (Mercury)
United States Copper Company
Longhorn and Dexter Claims
Humboldt County, Nevada

The Applicant requests assistance in exploring for quicksilver by underground workings on the subject claims, also known as the Wholey property.

The Wholey Mine was the subject of an earlier application in 1951, Docket DMEA-2307 (Mercury), Mr. J. C. Wholey, Wholey Mine, Humboldt County, Nevada. The mine was examined by H. L. Sebel and E. H. Bailey, U. S. Geological Survey, and a report dated June 19, 1952 recommended denial.

The new proposal is to explore the same mine except that the new work would be done 100 feet below the old workings. Judging from the maps no work has been done on this property since the previous field examination. Mr. Bailey has reviewed

the new application and concludes that inasmuch as there is no new information there is no basis for changing his conclusions nor reason to change his recommendation.

In his letter of transmittal to the Executive Officer of the DMEA Field Team Mr. Bailey stated ".....a recommendation of the application should be determined by the current need for mercury. If the need is critical, then the expectable production of 10 to 20 flasks of mercury and the slight possibility of a more significant discovery might justify Government participation in the exploration." He also stated that "...there is a slight possibility that high-grade ore containing approximately several hundred flasks of mercury might be discovered."

The probability of a significant discovery appears to be very small. The applicant's appraisal of this property is evidently so low that he is unwilling to risk any of his own funds on a little preliminary work to reveal additional evidence from which an exploration project might be justified.

We recommend, therefore, that the application be denied.

400

DOCKET
Surname:
Martin
Kiilsgaard
Larsh
Selfridge

SEP 1 1956

United States Copper Company
421 Atlas Building
Salt Lake City, Utah

Re: Docket No. DMEA-4376, Mercury
Longhorn and Dexter Claims
Humboldt County, Nevada

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-referenced property have been reviewed.

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

Careful study of all our data, including the information in a field examination report made in connection with a previously denied application for exploration assistance on the property (Docket Number DMEA-2307), indicates to us that the probability of disclosing minable ore reserves is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing this property to our attention.

Sincerely yours,

Frank E. Johnson (by LSL)
ACTING Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
J. W. Pennington, USBM
FT, Reg. 2

TLChapman/ls 9/11/56

R.C.S.

This property was previously examined as per our Docket No. KJH 29-230 and the corresponding application was denied. As the evidence submitted indicates that no affirmable work has been done since the previous examination we regret to advise you that your application is denied.

This seems to me to tie the denial too closely to the examination, and not to "the examination and other information" the way we usually do

WSAJ
9/12/56

including ~~the~~ a report on a field examination made in connection with a permanent application on the property (DMEA-2307)

It is our understanding that no appreciable work has been done since our field examination was made in connection with the application submitted December 26, 1951, by John C. Wholey, our Docket No. DMEA-2307

the information

including ~~a report on a field examination~~ made in connection with a previously denied application for exploration assistance on the property (Docket Number DMEA-2307),

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

United States Copper Company
421 Atlas Building
Salt Lake City, Utah

Re: Docket No. DMEA-4376, Mercury
Longhorn and Dexter Claims
Humboldt County, Nevada

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-referenced property have been reviewed.

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

Careful study of all our ~~information,~~ data, ~~although noting the occurrence of mercury mineralization on this property~~, indicates to us that the probability of disclosing minable ore reserves (by your proposed program) is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Exploration Administration program and for bringing this property to our attention.

Sincerely yours,

Administrator

Remite
9/12

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

September 11, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $15,070
Docket No. DMEA-4376, Mercury
United States Copper Company
Longhorn and Dexter Claims (Wholey property)
Humboldt County, Nevada

Denial of the subject application is recommended by this Division on the basis of the following information:

John C. Wholey, owner of the above-mentioned property, made an application for exploration assistance on December 28, 1951. The property was examined on May 5, 1952, by H. L. Sobel and E. H. Bailey, Geological Survey, and on the basis of this report the application was denied. The Field Team advises us that, as indicated by the maps submitted with the United States Copper Company's application, no appreciable work has been done since the prior examination, and a re-examination is not believed to be justified. This Division concurs with this conclusion.

Applicant: United States Copper Company (a Nevada corporation)
421 Atlas Building
Salt Lake City, Utah

Property: Property consists of five lode mining claims, located in secs. 10 and 15, T. 40 N., R. 40 E., M. D. B. and M., Humboldt County, Nevada. Recorded in the Court House at Winnemucca, Nevada, as follows:

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Longhorn No. 1	A-1 " "	417
Longhorn No. 2	A-1 " "	567
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Dexter	A-1 " "	415

Ownership: The property is owned by John C. Wholey, Winnemucca, Nevada, and is under lease and option to the United States Copper Company, dated April 18, 1956.

Geology: Mercury in the form of cinnabar occurs in fault zones through thinly bedded sandy limestones as filling and limestone replacements. The replacement zones are small, though it is possible moderate size ore zones may be found as in the adjoining Cahill mine.

Workings: The workings consist of a crosscut adit and about 160 feet of drifting and a small amount of raising on mineral showings.

Past Production: From 14 to 20 flasks of mercury have been produced from the property, including 14 flasks produced in 1941 by Thos. L. Chapman.

Comments and Conclusions: As no appreciable work has been done since the examination by our geologists in 1952, the Field Team does not believe that another examination is necessary and recommends denial. Miss Helena M. Meyer, Bureau of Mines, concurred in the denial in 1952. N. E. Nelson, Geological Survey, James W. Pennington, Bureau of Mines, and Thos. L. Chapman concur in the Field Team's conclusions.

W S Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Docket
Chapman
Martin

September 11, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $15,070
Docket No. DMEA 4376, Mercury
United States Copper Company
Longhorn and Dexter Claims (Wholey property)
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Past Production: From 14 to 20 flasks of mercury have been produced from the property, including 14 flasks produced in 1941 by Thos. L. Chapman.

Comments and Conclusions: As no appreciable work has been done since the examination by our geologists in 1952, the Field Team does not believe that another examination is necessary and recommends denial. Miss Helena M. Meyer, Bureau of Mines, concurred in the denial in 1952. N. E. Nelson, Geological Survey, James W. Pennington, Bureau of Mines, and Thos. L. Chapman concur in the Field Team's conclusions.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

cc: Docket
Code 400
Oper. Committee
Adm. Read. File

TLChapman/ls
9/11/56

Docket

RECEIVED
SEP 11 1956

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

Date September 11, 1956

DMEA Docket No. 4376
DMEA Contract No.
Commodity Mercury
Name of applicant United States Copper Co.
Name of property LongHorn & Dexter Claims
Location of property Humboldt County, Nev.
Estimated cost of project $15,070100

Copy retained 400

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

WSM

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Field Team Memorandum
(Application, Field Team Report, etc.)

1. Date of subject document 8/24/56. 2. Date received by reviewer: 9/6/56.

3. Prior reports on this property known to reviewer: Yes ☐, No ☐.

4. Prior reports on nearby properties known to reviewer: Yes ☐, No ☐.

5. Information available on past production: Yes ☐, No ☐.

6. Other pertinent factors known to reviewer: Yes ☐, No ☐.

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location ☐
   b. Ownership ☐
   c. Evidence of mineralization ☐
   d. Geology ☐
   e. Proposed exploration method ☐
   f. Alternate exploration method ☐
   g. Costs ☐
   h. _____ ☐

9. Action advised:
   a. Obtain information from applicant ☐
   b. Refer to Field Team ☐
   c. Denial [x]
   d. Agree with Field Team [x]
   e. Disagree with Field Team ☐
   f. Suggest alternate plan ☐
   g. Request another examination ☐
   h. Approval ☐
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

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

Date September 11, 1956

DMEA Docket No. 4376
DMEA Contract No.
Commodity Mercury
Name of applicant United States Copper Co.
Name of property LongHorn & Dexter Claims
Location of property Humboldt County, Nev.
Estimated cost of project $15,070100

Memorandum

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From: J. W. Pennington, Branch of Base Metals

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8. Factors needing special consideration:
   a. Location ☐
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   c. Evidence of mineralization ☐
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   e. Proposed exploration method ☐
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   g. Costs ☐
   h. _____ ☐

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   a. Obtain information from applicant ☐
   b. Refer to Field Team ☐
   c. Denial ☒
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Washington 25, D. C.

Date September 11, 1956

DMEA Docket No. 4376
DMEA Contract No.
Commodity Mercury
Name of applicant United States Copper Co.
Name of property Longhorn & Dexter Claims
Location of property Humboldt County, Nev.
Estimated cost of project $15,070100

Memorandum

To: W. G. Martin, Defense Minerals Exploration Administration

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Field Team Memorandum
(Application, Field Team Report, etc.)

1. Date of subject document 8/23/56 2. Date received by reviewer: 9/6/56.

3. Prior reports on this property known to reviewer: Yes ☐, No ☐.

4. Prior reports on nearby properties known to reviewer: Yes ☐, No ☐.

5. Information available on past production: Yes ☐, No ☐.

6. Other pertinent factors known to reviewer: Yes ☐, No ☐.

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location ☐
   b. Ownership ☐
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   a. Obtain information from applicant ☐
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   d. Agree with Field Team ☐
      i. Consult with Mr. _____ at _____ AEC office.
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   g. Request another examination ☐
   h. Approval ☐

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Docket

IN REPLY REFER TO:

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

RECEIVED
SEP - 7 1956

Sept. 6, 1956

Copy retained 400

Re: DMEA 4376
United States Copper Co.
Wholey property
Humboldt Co., Nev.
$13,700.00 - Mercury

WSM

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team office report and a memorandum .

The applicant requested assistance in exploring 2 fault zones by sinking crosscutting and drifting. Little supporting evidence of the presence of mercury was given.

The property was the subject of a previous application, DMEA 2307, 1951. That application was denied and as little or no work has been done since, it is deemed unnecessary to re-examine the property and a denial is again recommended.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
SEP - 7 1956

Sept. 6, 1956

Re: DMEA 43 6
United States Copper Co.
Coley property
Humboldt Co., Nev.
$13,700.00 - Mercury

Memorandum

To: [illegible] Martin, Defense Minerals Exploration Administration

From: N. [illegible] Nelson, U. S. Geological Survey

Subject: Review of Field Team office report and a memorandum.

The applicant requested assistance in exploring 2 fault zones by sinking, crosscutting and drifting. Little supporting evidence of the presence of mercury was given.

The property was the subject of a previous application, DMEA 2307, 1951. That application was denied and as little or no work has been done since, it is deemed unnecessary to re-examine the property and a denial is again recommended.

I concur with the recommendation.

N. S. Nelson

N. S. Nelson

NSNelson:btr
G 9/6/56

cc: J. W. Pennington, 3623
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Docket file

IN REPLY REFER TO:

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

RECEIVED
SEP - 7 1956

Sept. 6, 1956

Re: DMEA 43[illegible]6
United States Copper Co.
Whaley property
Humboldt Co., Nev.
$13,700.00 - Mercury

Memorandum

To: W. [illegible] Martin, Defense Minerals Exploration Administration

From: N. [illegible] Nelson, U. S. Geological Survey

Subject: Review of Field Team office report and a memorandum.

The applicant requested assistance in exploring 2 fault zones by sinking crosscutting and drifting. Little supporting evidence of the presence of mercury was given.

The property was the subject of a previous application, DMEA 2307, 1951. That application was denied and as little or no work has been done since, it is deemed unnecessary to re-examine the property and a denial is again recommended.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

NENelson:btr
G 9/6/56

cc: J. W. Pennington, 3623
Director's reading file (4212)
Branch reading file (4212)
DMEA (3)
Chron. file
Docket file

DMEA Docket

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

RECEIVED
AUG 31 1956

1605 Evans Avenue
Reno, Nevada

August 29, 1956

MEMORANDUM

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

WSM

Subject: Docket No. DMEA-4376 (Mercury)
United States Copper Company
Longhorn and Dexter Claims
Humboldt County, Nevada

Reference is made to your letter of July 26, 1956, requesting a field examination of subject property.

I am enclosing four copies of a memorandum from Roscoe Smith, based on which I do not believe a re-examination is necessary. The property was examined under Docket No. DMEA-2307 and a denial of exploration loan was recommended.

I discussed the application by telephone with Mr. Robert D. Morris, of the United States Copper Company, and additional work in the area where the exploration work is proposed has not been done since the examination by Bailey and Sobel in 1952. This is confirmed by comparing the map of Bailey and Sobel with the map presented in the application.

Based on information available, I believe the loan application should be denied because there is no evidence to support the probability of a significant discovery.

We shall be pleased to re-examine the property if you think it justified.

S. Ricker

Reviewed by DMEA OPERATING COMMITTEE
9-7-56
(date)

Encls.

BUREAU OF MINES
WASHINGTON, D. C.
AUG 31 8 03 AM '56

1605 Evans Avenue
Reno, Nevada

August 24, 1956

Memorandum

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

From: Roscoe Smith, DMEA Field Team, Region II

Subject: Review of Application
Docket DMEA-4376 (Mercury)
United States Copper Company
Longhorn and Dexter Claims
Humboldt County, Nevada

The Applicant requests assistance in exploring for quicksilver by underground workings on the subject claims, also known as the Wheeley property.

The Wheeley Mine was the subject of an earlier application in 1951, Docket DMEA-2307 (Mercury), Mr. J. C. Wheeley, Wheeley Mine, Humboldt County, Nevada. The mine was examined by H. L. Sobel and E. H. Bailey, U. S. Geological Survey, and a report dated June 19, 1952 recommended denial.

The new proposal is to explore the same mine except that the new work would be done 100 feet below the old workings. Judging from the maps no work has been done on this property since the previous field examination. Mr. Bailey has reviewed

Approved by
DMEA OPERATING COMMITTEE
9-7-56
(date)

the new application and concludes that inasmuch as there is no new information there is no basis for changing his conclusions nor reason to change his recommendation.

In his letter of transmittal to the Executive Officer of the DMEA Field Team Mr. Bailey stated .....a recommendation of the application should be determined by the current need for mercury. If the need is critical, then the expectable production of 10 to 20 flasks of mercury and the slight possibility of a more significant discovery might justify Government participation in the exploration. He also stated that ...there is a slight possibility that high-grade ore containing approximately several hundred flasks of mercury might be discovered.

The probability of a significant discovery appears to be very small. The applicant's appraisal of this property is evidently so low that he is unwilling to risk any of his own funds on a little preliminary work to reveal additional evidence from which an exploration project might be justified.

We recommend, therefore, that the application be denied.

400

Docket
McMahon
Martin
Nelson
Yager
Selfridge
Johnson

JUL 2 6 1956

United States Copper Company
421 Atlas Building
Salt Lake City, Utah

Re: Docket No. DMEA-4376, Mercury
Longhorn and Dexter claims
Humboldt County, Nevada

Gentlemen:

The above-docketed application for exploration assistance for mercury ores has been reviewed by the Washington office of Defense Minerals Exploration Administration and referred to Mr. Spangler Ricker, Executive Officer, DMEA Field Team, Region II, 1605 Evans Avenue, Reno, Nevada, for a field examination of the property.

Any assistance that you can give the members of the Field Team will be appreciated.

Sincerely yours,

G. O. Mittendorf

Administrator

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
T. Kiilsgaard, USGS
J. W. Pennington, USBM
FT, Region 2

ADMcMahon/ls
7/20/56

R.C.S.

DOCKET
Surname:
McMahon
Martin
Selfridge
Yopes

JUL 26 1956

Mr. Spangler Ricker, Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA 4376, Mercury
United States Copper Company
Longhorn and Dexter claims
Humboldt County, Nevada

Dear Mr. Ricker:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of two memoranda dated July 12, 1956, by J. W. Pennington, Bureau of Mines, and N. E. Nelson, Geological Survey, respectively, relating to the project, are enclosed.

Sincerely yours,

George C. Selfridge
(By es)
Chairman, Operating Committee

Enclosures

APPROVED:

P. F. Yopes

Member, Bureau of Mines

N. E. Nelson

Member, Geological Survey

cc: Docket
Code 400
Oper. Comm.
Adm. Read. File
Thor Kiilsgaard, USGS
J. W. Pennington, USBM
FT, Region 2

ADMcMahon/ls
7/23/56

R.G.R.

Docket

IN REPLY REFER TO:

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

RECEIVED
JUL 13 1956

July 12, 1956

Copy retained 400

Re: DMEA 4376
United States Copper Co.,
Wholey property
Humboldt Co., Nev.
$13,700 - Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of application

The applicant requests assistance in exploring 2 fault zones by (a) sinking 100 feet in a fault zone showing in an adit, (b) crosscutting 60 feet to a second zone, and (c) driving 50 feet each way (east and west) from the winze bottom and 50 feet each way from the crosscut in the second fault.

Few data are given, such as samples, assays, etc., that afford a reason for doing the work in the faults except that a vertical fractured zone on the adjacent property (Sonoma?) has been very productive, and from scattered surface showings on the Wholey ground, 14 flasks of mercury were produced.

Mention is made of several hundred feet of drifting, raises and crosscuts. In two of the openings two faults are drifted upon for 120 and 130 feet. That they are ore-bearing is not said, but such is inferred because from the center of the 130-foot fault segment the winze is to be sunk, from which a crosscut is to be driven to the projected extension of the 120-foot segment of the second fault.

The relationship of the underground workings to workings in the adjoining property (Sonoma) should be provided, along with production figures of some sort showing that work in the adjoining ground has been worth while and, by long long inference, work in the referenced property might also be worth while.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

Docket

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

RECEIVED
JUL 13 1956

July 12, 1956

Copy retained

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: Commodity Industry Analyst, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4376 (mercury), United States Copper Company, Wholey Ground, Humboldt County, Nevada, $15,070.00

The applicant proposes to explore the property by 100 feet of winze and 260 feet of drifting and crosscutting at an estimated total cost of $15,070.00.

According to the applicant and Bureau of Mines records, production from the property has totaled 14 flasks. This production came from an estimated 39 tons of ore with an apparent assay of 27 pounds of mercury per ton.

I believe that an examination of the property and evaluation of the proposed program are necessary and recommend that the application be referred to the Field Team.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
R. W. Geehan
F i l e s

July 11, 1956

U. S. Copper Co.
421 Atlas Building
Salt Lake City, Utah

Subject: DMEA-4376
Re: Exploration Assistance
Longhorn & Dexter Claims

Gentlemen

The receipt of your application dated June 13, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4376 and referred to the Iron & Ferro-Alloy Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

July 11, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA
- 4376 U. S. Copper Co.- Longhorn & Dexter Claims

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

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

RECEIVED
JUL 10 1956

1605 Evans Avenue
Reno, Nevada

July 6, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Application Loan - Mercury
United States Copper Company
Longhorn & Dexter Claims
Humboldt County, Nevada

Attached are three sets of MF-103 Application for Aid forms on above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

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

RECEIVED
JUL 10 1956

1605 Evans Avenue
Reno, Nevada

July 6, 1956

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Application Loan - Mercury
United States Copper Company
Longhorn & Dexter Claims
Humboldt County, Nevada

Attached are three sets of MF-103 Application for Aid forms on above subject. The fourth set has been retained in our files.

S. Ricker

Attach.

SRicker:gh
cc: R. M. Smith
File

UNITED STATES

COPPER COMPANY

APPLICATION FOR AID IN AN EXPLORATION PROJECT COVERING LONGHORN AND DEXTER CLAIMS HUMBOLDT COUNTY, NEVADA

Pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended

DMEA-4376
Mercury
7-10-56
$15,070.00

RECEIVED
JUL 10 1956

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:

United States Copper Company
421 Atlas Building
Salt Lake City, Utah

1-(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.

The applicant is a corporation organized under the laws of the State of Nevada.

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

Preston M. Neilson, President, 421 Atlas Building, Salt Lake City, Utah
Robert D. Morris, Vice President, Box 114, Gardnerville, Nevada
Phillip A. Bullen, Treasurer, 2050 Walkers Lane, Salt Lake City, Utah
Melvin E. Leslie, Secretary, 421 Atlas Building, Salt Lake City, Utah

2. General -- Omit.

3. Applicant's Property Rights.

(a) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract.

The applicant wishes to explore 5 lode mining claims located on the eastern flank of the Hot Springs Range in unsurveyed Sections 10 and 15 of Township 40 North, Range 40 East (Mount Diablo Base and Meridian).

Attached hereto as Exhibit A is a road and township map of the general area. Mining claims are located as shown on the blue outline on this map.

3-(b) State any mine name by which the property is known.

The property is presently known as the "Wholey ground".

3-(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise.

The ground is held by the United States Copper Company under a Lease and Option Agreement dated the 18th day of April, 1956.

3-(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.

Attached hereto is Exhibit B, a copy of the contract under which applicant controls the land.

3-(e) If you own the land, describe any liens or encumbrances on it.

There are no liens or encumbrances on the land covered by this application.

3-(f) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

The Certificates of Location of the mining claims which comprise the property covered by this application are recorded in the office of the County Recorder for Humboldt County, Nevada, in the books and on the pages indicated below, viz:

Name of Claim	Book and Page Where Recorded
Longhorn	Book A-1 of Notices, page 129
Longhorn No. 1	Book A-1 of Notices, page 417
Longhorn No. 2	Book A-1 of Notices, page 567
Longhorn No. 2 South Extension Fraction	Book A-2 of Notices, page 561
Dexter	Book A-1 of Notices, page 415

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.

There exist upon the ground several hundred feet of drifting raises and crosscuts, a map and Brunton survey of which is attached as Exhibit C.

Production Facilities: There is on the property a retort consisting of two pipes capable of treating approximately 1,000 pounds per 24 hours.

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

During the previous work conducted upon the ground, there was produced, according to the owner, John Wholey, approximately 14 flasks of quicksilver. This came mostly from scattered surface showings. At the present time, there is no blocked out ore in the mine but drifting to the south encountered showing for approximately 70 feet that occurred in a vertical fractured zone known locally as the Cahill formation which has been very productive on the adjacent ground. The upward extension of this formation is cut off at the top of the drift by faulting.

4-(c) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and you 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.

Sedimentary rocks make up the country rocks within the area of the Longhorn and Dexter claims. These rocks consist mainly of quartzite, impure

dolomitic quartzite, snadstone and shales. Cherts and interbedded shales occur on the western flank of the area. Most of the district has moderate to deep soil cover.

The rocks in the general area are divided into five formations consisting of cherts and shales on the western flank. Underlying this is what has been termed locally as Blocky-Blue Quartzite which occurs in fine-grained beds ranging in thickness from two to eight inches. This occurs between the Cahill formation on the east and the thrusted cherts on the west. Neither the base nor the top of this formation is exposed, but in the general area, you can see approximately 900 feet of it. This formation is in thrust contact with the Cahill formation and was locally named "Blocky-Blue" due to the blocky character and the blue color of the weathered rock.

The Cahill Formation has a maximum thickness of about 350 feet and consists of the following units in descending order:

> Approximately 210 feet of tan, fine-grained, massive to medium bedded quartzite, numerous beds 4 to 15 feet thick of light gray to tan dolomite, carrying irregular zones of introduced white quartz in the form of stockwork veinlets.
>
> Approximately 120 feet of light brown to gray, fine-grained, dolomitic quartzite, with beds ranging up to four inches in maximum thickness.
>
> Approximately 40 feet of dark-blue, dense, fine-grained quartzite.
>
> Approximately 25 feet of tan, sandy to pure dolomite.

It is in the continuation of this Cahill Formation to the north and west that the applicant desires to explore.

Attached as Exhibit D is a detailed geological map of the Cahill area showing the extension of the Cahill formation into the area which we wish to explore.

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

The claims may be reached by traveling northward 22 miles on U. S. Highway 95 from Winnemucca, Nevada, the county seat of Humboldt County, then east 12 miles on Nevada State Highway 8 B. Both highways are macadam surfaced and well-maintained routes. From Highway 8 B, travel is on graded county roads eastward, then southward a total distance of 16 miles. The village of Paradise Valley, Nevada, is 9 miles north of the county road junction above-mentioned. Winnemucca, having a population of 3800, is the supply point and is located at the intersection of Highways 40 and 95, and is serviced by both the Western Pacific and Southern Pacific Railroads.

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

Manpower, materials, supplies, and equipment are readily available in Winnemucca, Nevada. Water can be had in abundance from the Paradise Valley floor area, a distance of 2 miles. Power is supplied by the Sierra Pacific Power Company to a 150 ton reduction plant erected upon the Cahill property and is approximately one-quarter of a mile distant.

5-(a) State the mineral or minerals for which you wish to explore.

Mercury.

5-(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.

The objective of the applicant in exploring the property will be to ascertain the extension of the mineralization encountered in the drift to the north, as explained in Exhibit B, and in their downward continuance shown in cross-section marked as Exhibit E.

The applicant proposes to sink a winze on this formation to a depth of 100 feet, then crosscut approximately 60 feet to the vertical structure or faulting as shown in Exhibit E. Then applicant proposes to drift from the 100 foot level on any showing encountered 50 feet north and 50 feet south, as shown in Exhibit E attached.

5-(c) The work will start within 15 days after the approval of this application and will be completed within 4 months from the date of an exploration project contract.

5-(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.

Preston M. Neilson, President: Mr. Neilson is President of Skyline Oil Company, which has extensive oil and gas and mining interests in the states of Utah, Nevada, Colorado, Wyoming, Montana and Arizona. Mr. Neilson was a Special Expert Economic Analyst specializing in metals and metallurgy with the United States Tariff Commission in Washington, D. C., from 1925 to and including 1929. He was, for many years, associated with the large corporate law firm of Cravath, de Gersdorff, Swaine & Wood, Wall

and Broad Streets, New York, N Y., during which time he worked closely with John J. McCloy who subsequently became, in the following order, Under Secretary of War, first President of the World Bank, United States High Commissioner to Germany, and Chairman of the Board of the Chase Manhattan Bank of New York. Mr. Neilson is a member of the Bar of New York, of the District of Columbia, of Utah, and of the federal courts. He graduated "with distinction" from George Washington University Law School in 1929, and did post-graduate work at Columbia University Law School. He received, in 1925, a B. S. degree (majoring in Business Administration) from the Utah State Agricultural College.

R. D. Morris, Vice President: Mr. Morris will supervise the operations contemplated by this application. A summary of his experience is attached hereto as Exhibit F.

Phillip A. Bullen, Treasurer: Mr. Bullen holds a B. S. degree from the Utah State Agricultural College and an M. B. A. degree from Harvard University Graduate School of Business Administration. He was an accountant for Talon Slide Fastener Company, Meadville, Pennsylvania, for two years, and manager of Adrian Hatch and Company, farm equipment wholesalers, for two years.

Melvin E. Leslie, Secretary: Mr. Leslie holds a B. A. degree from the College of Liberal Arts, Northwestern University, and a J. D. degree from the School of Law of the same University. He is a member of both the Utah and Colorado Bars and of the Federal District Courts in those states.

6-(a) Independent contracts.

This application contemplates execution by applicant of a short form contract pursuant to which the government will reimburse applicant on the basis of an agreed unit cost for units of work performed as follows:

> The applicant agrees to contract the proposed 100 feet of winze for $40 per foot, making a total cost for this work of $4,000, and the proposed drifting and crosscutting 260 feet for $35 per foot as per cross sections attached hereto as Exhibit E, making a total cost for this work of $9,100.

This cost per foot will include all labor, supervision, supplies, transportation, fuel, etc.

6-(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.

All items contained in 6-(b) are covered in contract price excepting that applicant would desire, in addition to the above, to employ a competent geologist on a part-time basis at a cost of approximately $150 per month for a period of 4 months, making a total of $600.

The total estimated cost of items listed in 6-(a) and 6-(b) is $13,700.

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

None.

6-(d) Operating Equipment.

None.

6-(e) Rehabilitation and repairs.

None.

6-(f) New buildings, improvements, installations.

None.

6-(g) Miscellaneous.

None.

6-(h) Contingencies.

The applicant requests that an allowance be made to cover contingencies arising in the course of the exploration contract contemplated by this application of ten per cent (10%) of the costs hereinabove set forth, to-wit: $1,370.

RECAPITULATION

The total contemplated expenditure for the completion of the program contemplated by this application is thus:

Supervision, etc., as set forth in paragraphs 6-(a) and 6-(b):

Proposed 100 feet of winze for $40 per foot.....	$ 4,000
Proposed drifting and crosscutting 260 feet for $35 per foot.....	9,100
A competent geologist on a part-time basis at a cost of approximately $150 per month for a period of 4 months.....	600
Contingencies as set forth in 6-(h).....	1,370
Grand Total	$ 15,070

7-(a) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation?

Yes.

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

Money and equipment.

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 this 13th day of June, 1956.

Robert D. Morris

Robert D. Morris, Vice-President
of United States Copper Company,
the Applicant

Attest:

Melvin E. Leslie,
Secretary

LEASE AND OPTION

RECEIVED
JUL 10 1956

THIS AGREEMENT, made and entered into this 18th day of April, A. D. 1956, by and between JOHN WHOLEY, of the County of Humboldt, State of Nevada, CARMEN E. BRIDGMAN, of San Mateo, California, ELLEN PLATH, of Salt Lake City, Utah, and LLOYD C. WHOLEY, a member of the Armed Forces of the United States, by and through his attorney-in-fact, JOHN WHOLEY, the parties of the first part, hereinafter called Lessors, and UNITED STATES COPPER COMPANY, a Nevada corporation, the party of the second part, hereinafter called Lessee,

W I T N E S S E T H:

That the said Lessors, for and in consideration of the rents, royalties, covenants and agreements hereinafter expressed, to be paid, kept and performed by the said Lessee, have leased, let and demised, and by these presents do lease, let and demise unto the said Lessee, the following-described mining property and premises, and mining claims, situated in an unknown mining district, in the County of Humboldt, State of Nevada, and particularly described as follows, to-wit:

LONGHORN, Certificate of Location thereof recorded in Book A-1 of Notices, page 129, records of Humboldt County, Nevada;

LONGHORN NO. 1, Certificate of Location thereof recorded in Book A-1 of Notices, page 417, records of Humboldt County, Nevada;

LONGHORN NO. 2, Certificate of Location thereof recorded in Book A-1 of Notices, page 567, records of Humboldt County, Nevada;

LONGHORN NO. 2 SOUTH EXTENSION FRACTION, certificate of location thereof recorded in Book A-2 of Notices, page 561, records of Humboldt County, Nevada.

DEXTER, certificate of location thereof recorded in Book A-1 of Notices, Page 415, records of Humboldt County, Nevada.

TO HAVE AND TO HOLD the above-described premises for the purpose of mining from the date of this agreement, for the term of five years next ensuing.

The said Lessee, in consideration of the premises, has covenantod, contracted and agreed, and by these presents does covenant, contract and agree to and with said Lessors, their heirs, executors, administrators and assigns:

1. To enter upon said leased premises and to work the same in mine fashion in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible with due regard to the development and preservation of said mine or mining premises, as a workable mining property, and to the special covenants herein contained.

2. To repair all old timbering wherever it may become necessary, and to well and sufficiently timber said mine and mining premises at all points where proper and necessary in accordance with good and safe mining; continuing the timbering in the working tunnels now upon said premises with timber of the same dimensions as heretofore used, unless it becomes necessary for safety to use larger timber, in which event timbers of sufficient size for safety and permanent mining shall be used.

3. To allow the Lessors or their agents from time to time to enter upon and/or descend into all parts of said leased premises for the purpose of

inspection, surveys or taking samples therefrom, and to render to said parties proper assistance in making such inspection, surveys or examination.

4. It is understood and agreed that in the event of a survey or otherwise if it is ascertained that there are any fractions within the outside boundaries of the group of mining claims above-described, said fractions will be immediately located either by the said Lessors or by the said Lessee, and that said fractions so located shall immediately become subject to all of the terms and provisions of this lease, and the said Lessors shall be paid the royalty on any minerals produced therefrom as provided herein.

5. To do no stoping within ten (10) feet of the main tunnel or winze.

6. It is expressly understood and agreed that the Lessors reserve the property and right of property in and to all ores extracted from said premises during the period of this lease, and the said Lessee covenants and agrees to pay and allow the Lessors as royalty upon all ores mined, shipped, treated or sold from said leased premises in any manner during the life of this lease, as follows, to-wit:

> Ten per cent (10%) of the gross value of all ores of all quicksilver, gold or silver or other metals produced and sold from said property during each and every calendar month by the said Lessee.

It being distinctly understood and agreed by and between the parties h reto that the said Lessee shall and will pay and deliver to the said Lessors, ten per cent (10%) of the gross value of all quicksilver, gold or silver or other metals produced and sold from said property during each and every calendar month by the said Lessee on or before the 15th day of the following month.

It is further distinctly understood and agreed by and between the parties hereto that the said Lessee shall and will pay to the said Lessors the sum of One Thousand Dollars ($1,000) upon the execution of this agreement; that thereafter said Lessee shall and will pay to the said Lessors the sum of Two Hundred Fifty Dollars ($250) per month, without grace, commencing on the 1st day of June, A. D., 1956, and continuing each and every month during the remainder of this lease, which sum of $250 per month shall be a minimum advance royalty. It is understood, however, that all payments made hereunder (including, but not limited to, minimum or actual royalty, and the down payment of $1,000 hereinabove mentioned) shall apply upon the purchase price in the event the Lessee exercises the option to purchase the above-described property as hereinafter granted.

7. It is further distinctly understood and agreed by and between the parties hereto that the said Lessee shall and will keep true books of account showing the quantity and value of all ore and quicksilver, gold or silver or other metals produced and to furnish the Lessors with true copies of the same.

8. The Lessee shall and hereby does assume all responsibility in case of accident to its agents or employees in or about said property; and agrees to keep all employees of said Lessee on the said premises hereby leased or employed in connection therewith, fully insured with the Nevada Industrial Commission, at the sole cost and expense of said Lessee.

9. All taxes assessed against said demised premises, and for

ores mined and/or treated, shall be paid by the Lessee, except that the bullion taxes assessed by the State of Nevada, shall be paid pro rata by the said Lessee and Lessors as follows:

Ninety per cent (90%) by the Lessee; and

Ten per cent (10%) by the Lessors.

10. All assessment work on the above-named mining claims required by the laws of the United States of America, shall be done and performed at the whole cost and expense of the said Lessee, and shall be completed at least thirty (30) days prior to the date required by the said laws, and proof of labor shall be filed and recorded in the office of the County Recorder of Humboldt County, Nevada, by the said Lessee, for and on behalf of the said Lessors.

11. The said Lessors shall in no way be responsible for the debts contracted by the said Lessee and shall not be responsible for money due for work, materials and supplies, done or used on said premises by the said Lessee; and the said Lessee shall at all times hold harmless and protect the said Lessors against any and all claims or liens for labor or material furnished to the said Lessee during the life of this lease; all bills and expenses incurred by the said Lessee or those in privity with it shall be promptly paid by the said Lessee.

12. The said Lessors shall have the right of posting upon the said premises and property, notices permitted by law, stating and giving notice that the said Lessors shall not be liable for any labor or materials furnished to the said Lessee.

13. That the said Lessee shall and will do and perform all work

in and upon said property in accordance with the laws of the State of Nevada, and the rules and regulations of the State Mine Inspector of the State of Nevada.

14. That the said Lessee may assign this lease or any interest thereunder without the written consent of the Lessors first had and obtained, provided that in the event Lessors do not consent to the assignment, that the Lessee guarantees the faithful performance of each and every covenant by the sub-lessee.

15. Further, that the Lessee will deliver to the Lessors quiet and peaceable possession of said demised premises without demand or further notice on the 18th day of April A. D. 1961, at noon, or at any time previous thereto, upon valid demand for forfeiture or surrender of the lease by lessee, and it is mutually understood and agreed that all machinery, equipment, tools and buildings which may have been placed upon said premises by the said Lessee may be removed from said premises within ten (10) days after the termination of this lease; except that all pipe, track and timbering placed underground by the Lessee shall remain and become the property of the Lessors.

And provided further, that no machinery, equipment, tools or buildings shall be removed by the Lessee while the Lessee may be in any manner indebted to the Lessors under any obligation incurred under this lease.

16. In the event of the violation of any covenant or condition herein contained, the Lessors shall serve written notice of forfeiture upon said Lessee, specifying therein in which respect the Lessee has violated a covenant and condition. Thereafter, the said Lessee shall have ten (10) days in which to

rectify said default, and in the event the Lessee does not so cure the default specified, the Lessors may at their option terminate this lease, and the said premises and the appurtenances and all buildings and other improvements shall become forfeited to the Lessors, and the said Lessors or their agent may thereupon, after demand in writing for possession, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of the Lessors said Lessee and all persons found occupying said premises or any part thereof may be proceeded against as guilty of unlawful detainer.

17. It is further understood and agreed that all money required to be paid and/or delivered as royalties or otherwise by the said Lessee shall be paid over and delivered to the Winnemucca Branch of the First National Bank of Nevada, Winnemucca, Nevada, and deposited by said bank to the joint account of John Wholey and Carmen E. Bridgman.

18. It is further understood and agreed by and between the parties hereto that any and all ores extracted during the term of this lease shall be milled under the supervision of the Lessee or in facilities owned, or operated by the Lessee within the County of Humboldt, State of Nevada, which facilities the Lessor may visit and inspect at any and all reasonable times.

19. It is further mutually understood and agreed by and between the parties hereto, that in consideration of the sum of One Dollar ($1.00), lawful money of the United States of America, and other valuable consideration paid by the said Lessee unto the said Lessors, the receipt whereof is

hereby acknowledged, and the further consideration of the Lessee performing and keeping all the covenants and agreements on its part to be paid, kept and performed, said Lessors do hereby give and grant unto the said Lessee or its successors and assigns, the exclusive right and option to purchase the above-described property and the whole thereof for the full purchase price of One Hundred Thousand Dollars ($100,000.00), payable on or before the 18th day of April A.D., 1961, or in the event of the desire of the Lessee to exercise the option as provided for in paragraph 25 on page 8 of this Agreement the time will be extended to the 18th day of April A.D., 1966.

It is further understood and agreed by and between the parties hereto that the Lessors shall, on the 15th day of April, A.D. 1957, place in escrow with the Winnemucca Branch of the First National Bank of Nevada, Winnemucca, Nevada, a good and sufficient quitclaim deed to the property and premises herein described, conveying the same to the Lessee free and clear of all encumbrances except the Paramount Title of the United States Government. The conveyance is to be delivered to the Lessee upon its exercise of the option herein granted. In the event the Lessee fails to exercise this option, said bank is authorized and directed to return to the Lessors the conveyance placed in escrow. A copy of this Lease and Option shall accompany the Deed of conveyance hereinabove mentioned, which Lease and Option shall be considered as instructions to said escrow agent of the rights, duties and liabilities of the parties hereto.

The escrow charges for the initial deposit not to exceed the sum

of One Hundred Dollars ($100.00) shall be paid by the Lessee. All collection charges shall be paid by the Lessors.

20. It is specifically understood and agreed by and between the parties hereto, that there is presently located on said property herein demised, certain items of personal property belonging to said Lessors, consisting of one ore car, mine rails, retort tubes, buildings and improvements. The Lessee shall have the right to the full use of the said above-mentioned personal property without accountability for normal wear, tear, and depreciation, and this personal property shall be left for the exclusive use of the Lessee for the period that this option is in force. That all of said personal property shall remain the property of the Lessors, save and except if the Lessee shall exercise the option herein granted, then and in that event said personal property shall become the property of the said Lessee. In the event of default, all of said items of personal property shall be returned to the said Lessors.

21. It is understood and agreed by and between the parties hereto, that all quicksilver or other metal produced by the Lessee from the premises hereinabove described, shall be sold by it to a responsible dealer at the best price reasonably obtainable.

22. It is further understood and agreed by and between the parties hereto, that the said Lessee may upon ten (10) days written notice to the Lessors, terminate this lease; that after the expiration of said ten (10) days, said Lease and Option is to be null and void and of no further force and effect. However, all moneys paid to the Lessors while said lease is in existence

shall be retained by the Lessors as liquidated damages and not as a penalty.

23. In the event notice is to be served by either the Lessors or the Lessee under any terms or conditions of this lease, said notice shall be sent by registered mail to the following addresses:

JOHN WHOLEY, WINNEMUCCA, NEVADA;

UNITED STATES COPPER COMPANY, 418 ATLAS BLDG., SALT LAKE CITY, UTAH: ALSO TO GARDNERVILLE, NEVADA.

24. It is further mutually understood and agreed by and between the parties hereto, that the said Lessee agrees to perform upon the mining claims herein leased, at least sixty (60) shifts per calendar month each and every month of the term hereby demised, beginning with the month of May, 1956, and continuing monthly thereafter.

25. It is further understood and agreed by and between the parties hereto that should the Lessee well and faithfully perform each and every covenant on its part to be performed under this lease, the Lessors do hereby give and grant unto the said Lessee, an option to extend the term of the lease herein granted for an additional five (5) years; provided, further that the lessee shall have notified the Lessors in writing of its acceptance of this option at least three months prior to the expiration of the term herein granted.

26. Time is of the essence of this agreement and each and every clause of this indenture and all covenants and conditions contained herein, shall extend to the heirs, executors, administrators and assigns of the Lessors, and the successors and assigns of the Lessee.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands the day and year first above written.

John C. Wholey
John C. Wholey

Lloyd C. Wholey
Lloyd C. Wholey

By

Carmen E. Bridgman
Carmen E. Bridgman

John C. Wholey
John C. Wholey, Attorney-in-fact

Ellen Plath
Ellen Plath

LESSORS

UNITED STATES COPPER COMPANY

By R. D. Morris
Vice-President

Melvin E. Leslie
Secretary

LESSEE

STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

On this 18th day of April A. D. 1956, personally appeared before me, a Notary Public in and for said County and State, R. D. Morris and Melvin E. Leslie, known to me to be the Vice-President and Secretary of the Corporation that executed the foregoing instrument, and upon oath did depose that they are the officers of said corporation as above designated; that they are acquainted with the seal of said corporation, and that the seal affixed to said instrument is

the corporate seal of said corporation; that the signatures to said instrument were made by officers of said corporation as indicated after said signatures; and that the said corporation executed the said instrument 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 said County and State, the day and year in this Certificate first above written.

Lillian Woolsey
Notary Public in and for said County and State

My Commission Expires:
March 28, 1960

STATE OF NEVADA)
) ss.
COUNTY OF HUMBOLDT)

On this 26th day of April A. D. 1956, personally appeared before me, a Notary Public in and for said County and State, JOHN WHOLEY, known to me to be the person described in and who executed the foregoing instrument, who acknowledged to me that he 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 said County and State, the day and year in this certificate first above written.

James A. Callahan
Notary Public in and for said County and State

My Commission Expires: February 28, 1959

STATE OF NEVADA)
) SS.
COUNTY OF HUMBOLDT)

On this 26th day of April A. D. 1956, personally appeared before me, a Notary Public in and for said County and State, CARMEN E. BRIDGMAN, known to me to be the person described in and who executed the foregoing instrument, who acknowledged to me that she 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 said County and State, the day and year in this certificate first above written.

James A. Callahan
Notary Public in and for said County and State.

My Commission Expires: February 28, 1959

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

On this 26th day of April A. D. 1956, personally appeared before me, a Notary Public in and for said County and State, ELLEN PLATH, known to me to be the person described in and who executed the foregoing instrument, who acknowledged to me that she 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 said County and State, the day and year in this

certificate first above written.

James A. Callahan
Notary Public in and for said County and State.

My Commission Expires: February 28, 1959

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

On this 26th day of April A. D. 1956, personally appeared before me, a Notary Public in and for said County and State, JOHN WHOLEY, known to me to be the person whose name is subscribed to the within instrument as the attorney-in-fact of LLOYD C. WHOLEY, and acknowledged to me that he subscribed the name of the said LLOYD C. WHOLEY thereto as principal, and his own name as attorney-in-fact, 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 said County and State, the day and year in this certificate first above written.

James A. Callahan
Notary Public in and for said County
and State.

My Commission Expires: February 28, 1959.

RECORD AND MINING EXPERIENCE OF R. D. MORRIS

June 13, 1956

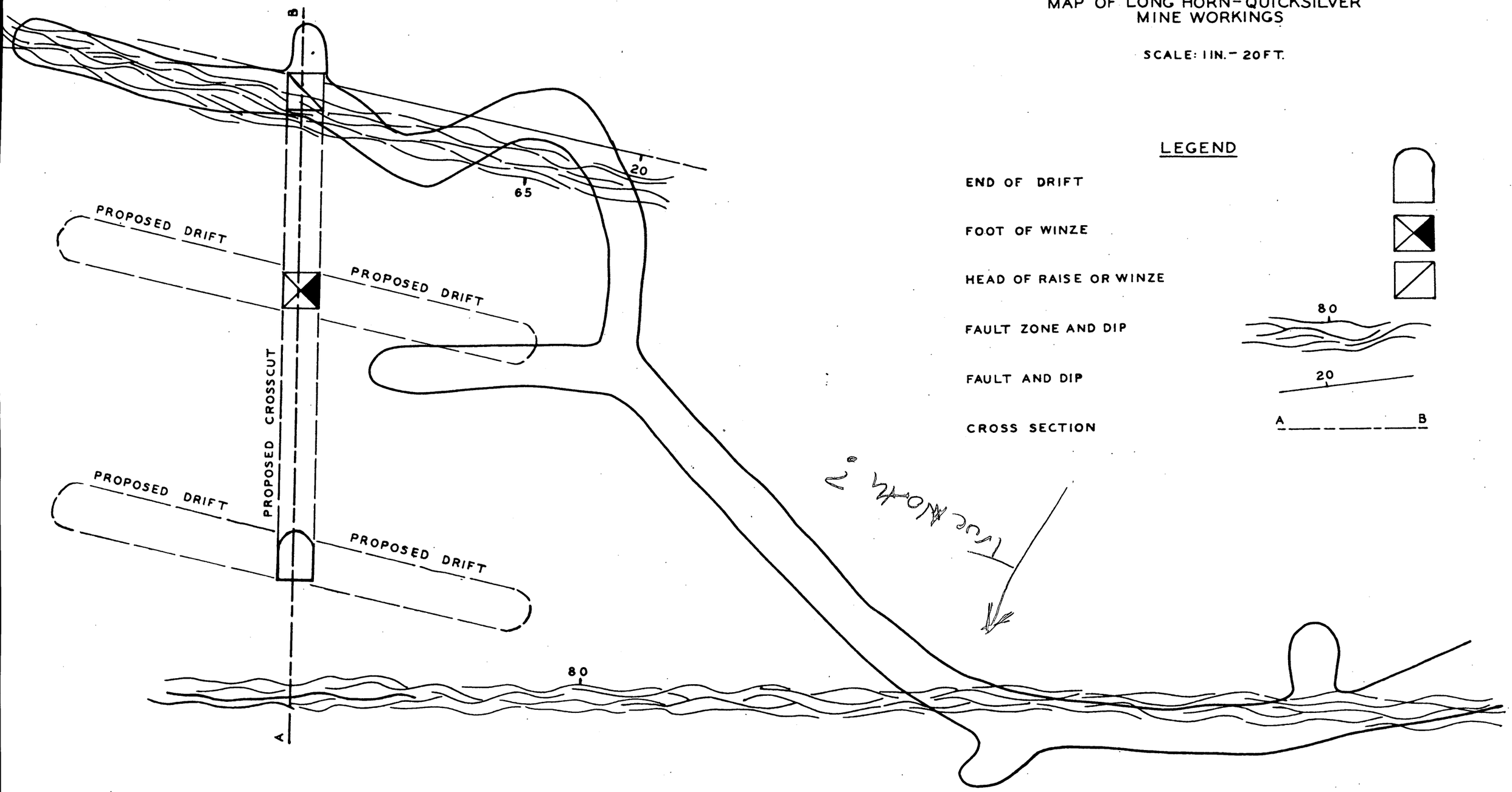
Vital Statistics: Present age: 45. Date of Birth: May 3, 1911. Married. 5 children. Residence: P. O. Box 114, Gardnerville, Nevada.

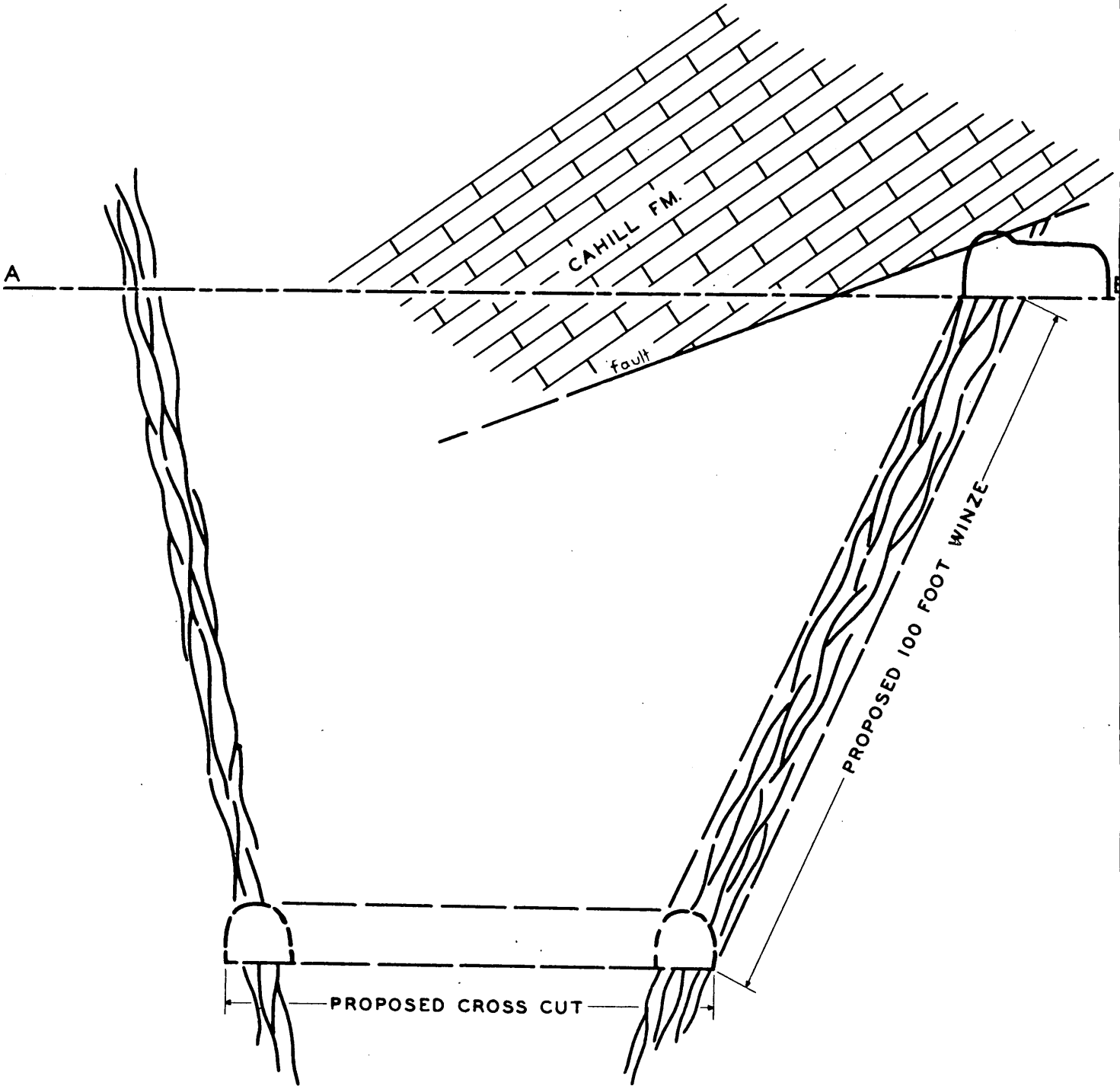
Year	Type of Work
1925 to 1929	Mucked in Mizpah Mine at Tonopah, Nevada, for three years during high school vacations. Also attended, during this time, School of Mines conducted at Tonopah, Nevada.
1929 to 1930	Mucker and mill helper, etc. at Douglas Mine, Nevada. Manager: Martin Chatiovich.
1930 to 1931	Miner in open pit and underground workings at B and B Quicksilver Mine. Was fireman and maintenance man in plant. Manager: Walter Childers.
1931 to 1933	Assistant Superintendent and assayer at Mina Mercury Mine (under Walter Childers, who was Manager of this mine as well as the B and B Mine). Was also, during this time, in charge of mining operations for this Company in Dunlap Canyon, Nevada.
1933 to 1934	Mill maintenance man, Diesel Engineer Locomotive Operator, and mill shift boss, at Roades Salt Marsh operation. (This mine was owned by Spreckles Sugar Company.) Superintendent: Duane S. Tweedle.
1934 to 1935	Underground miner and mill man for Nevada Massachusetts Mining Company, at Silver Dyke Mine, Superintendent: Glen Emminger.
1935 to 1936	Miner, welder, and mechanic in charge of heavy equipment repairs at Round Mountain placer and open pit operations. Manager: E. R. Richards.
1936 to 1938	Construction and mill foreman for U. S. Vanadium Corporation's operation at Pine Creek, Nevada. Also did field work during this time at Winnemucca, Nevada, for same Company. Manager: C. H. Hall.

1938 to 1940	Superintendent of Rand Company operations in Elko County, Nevada, with jurisdiction over Eastern Star gold mine, flotation and amalgamation plant, underground mining, open pit quicksilver mine, and reduction plant in Ivanhoe District, Nevada.
1940 to 1942	General Superintendent for Basil Prescott operations, which consisted of many mine examinations, the diamond drilling exploration of the Friedman Quicksilver Mines at Lovelock, Nevada, and extensive development and rehabilitation program, at Yellow Pine Mine at Goodsprings, Nevada.
1942 to 1943	Manager of Ivanhoe Quicksilver Mine. (This property was an open pit mine with a rotary kiln reduction plant.)
1943 to 1944	Mine Superintendent for Newmont Silver Cloud Mine, with supervision of open pit and underground operations.
1944 to 1953	Managed Alpine Mining Company operations in Buffalo Canyon near Minden, Nevada. This position was held under arrangement between Newmont Mining Company and R. F. C. covering loan of services to R. F. C. Continued as General Manager with Alpine Mining Company after R. F. C. had completed its development program at Alpine Mine. Thereafter had charge of the North Star Mine lease operations for Newmont Mining Company in Grass Valley, California.
1953 to 1954	Constructed one hundred ton gravity concentration flotation and acid treating plant for treating tungsten ores for the Toiyabe Mine and Milling Company at Gabbs Valley, Nevada. Also did all of the field examinations for this Company. Official title: General Manager. Vice President: R. R. Reed, Fallon, Nevada.
1954 to 1955	Resigned as manager of Toiyabe Mining and Milling to devote time to private matters.
1955 to 1956	Vice President of United States Copper Company, Box 114 Gardnerville, Nevada.

MAP OF LONG HORN-QUICKSILVER MINE WORKINGS

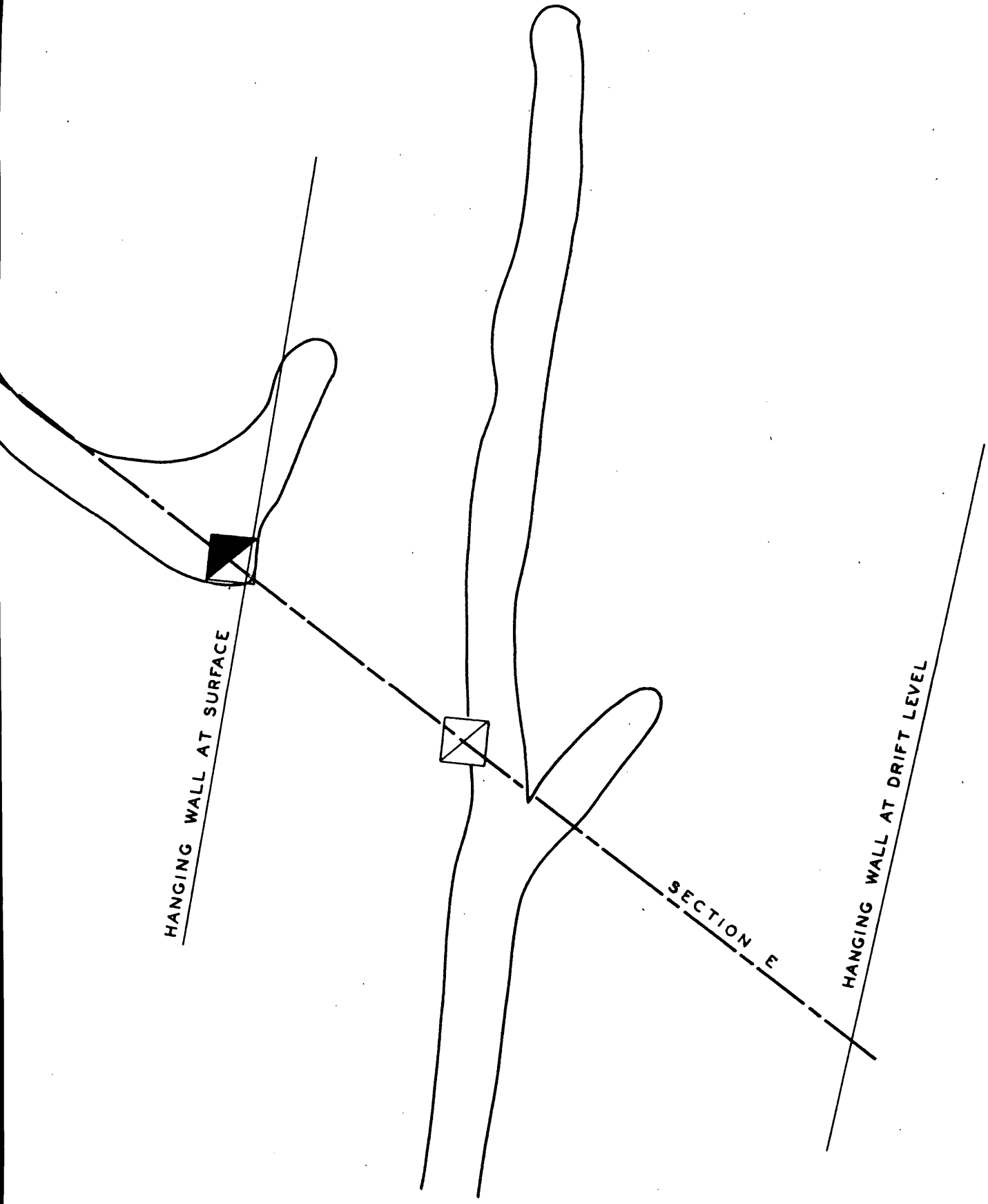
SCALE: 1 IN. = 20 FT.





CROSS SECTION AB

SCALE: 1 IN. = 20 FT.



DRIFT ON SOUTH SIDE OF CANYON

SCALE: 1 IN. = 20 FT.

BUREAU OF MINES

DMEA - 224 New Customhouse, Denver 2, Colo.

OFFICIAL BUSINESS

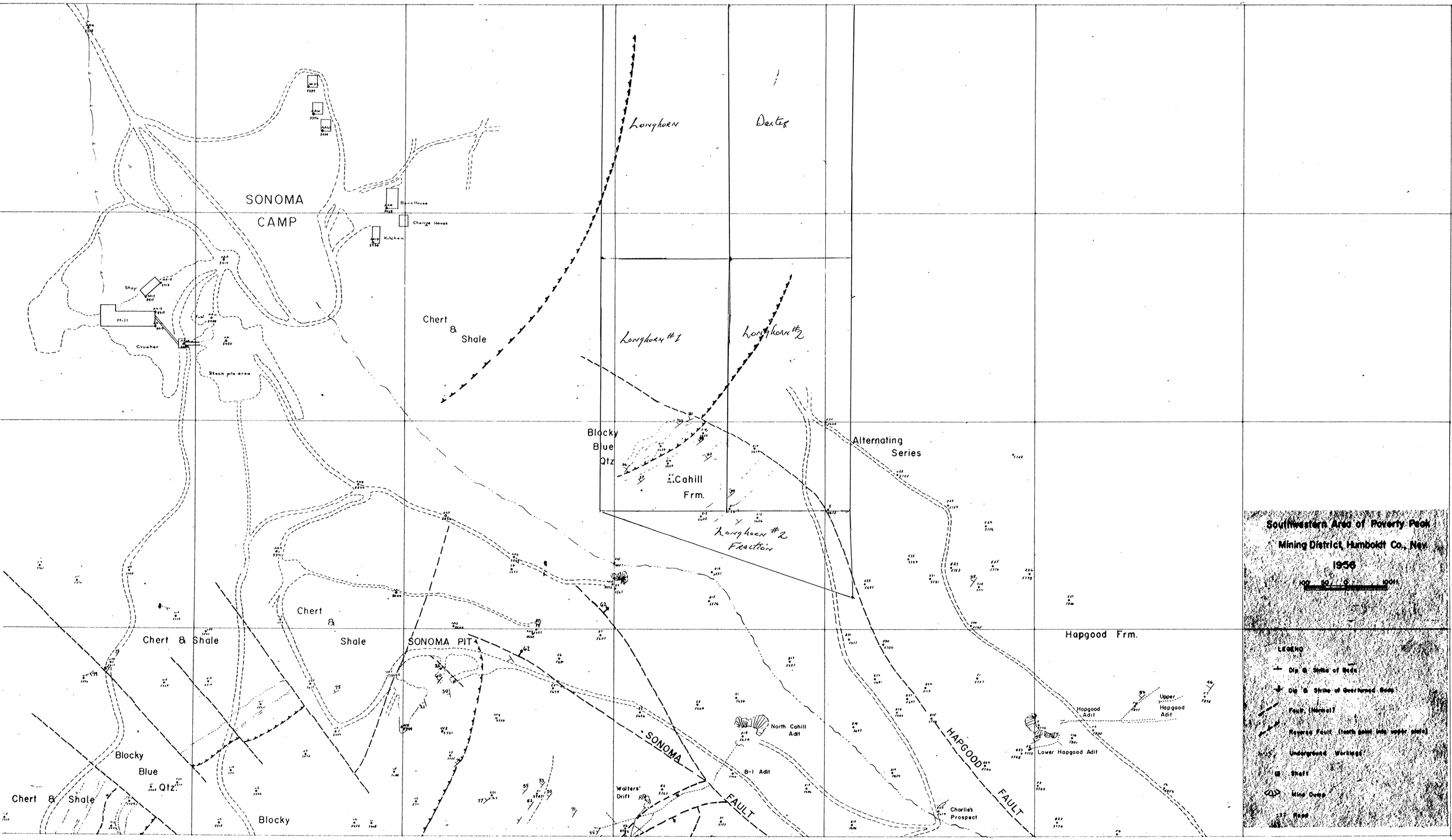
Mr. J. L. Chambers, Chief

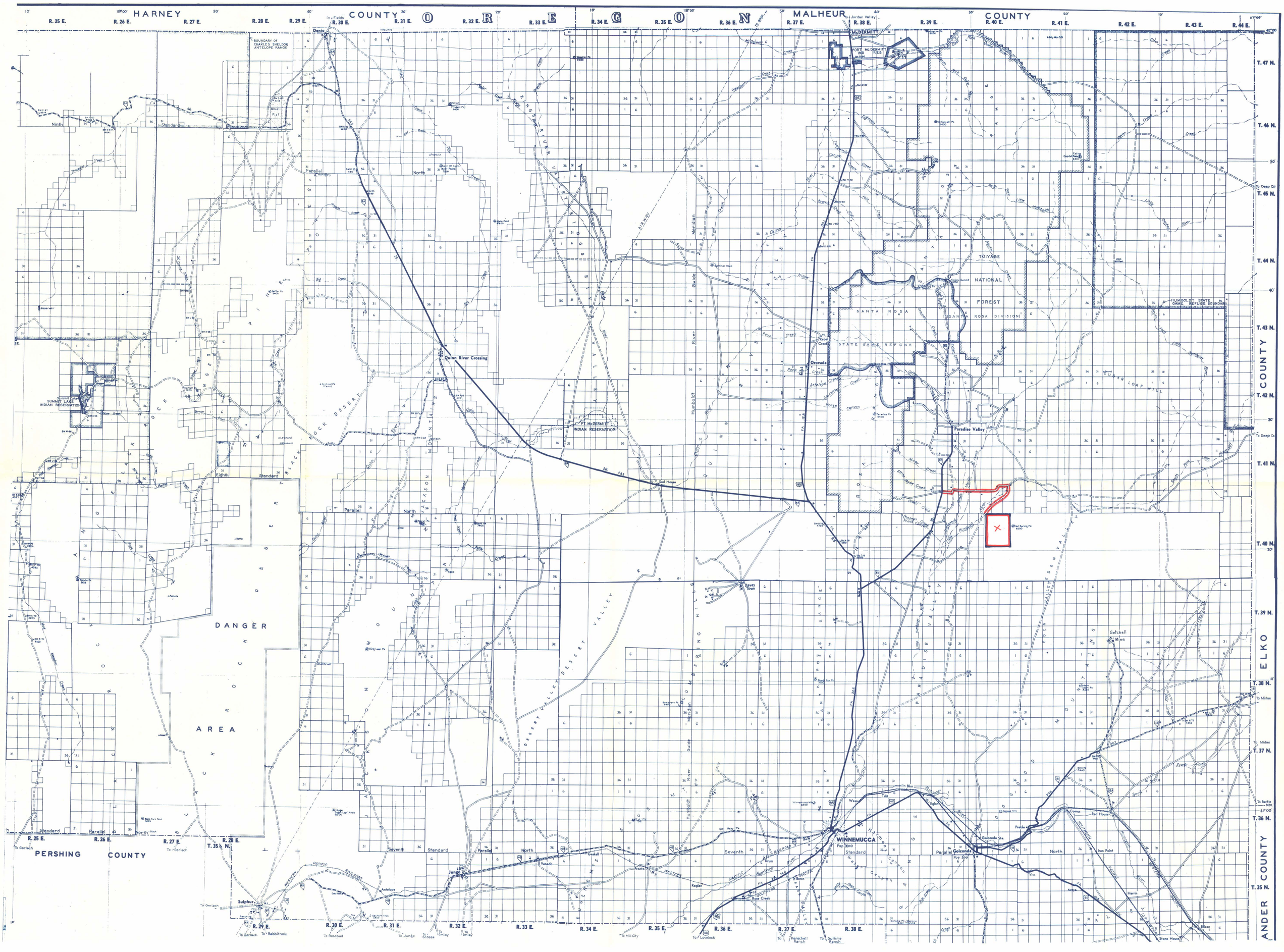
Contract Administration and Audit Division

Defense Minerals Exploration Administration

U. S. Dept. of Interior - Interior Building

Washington 25, D. C.


SONOMA
CAMP
Bunk House
Change House
Kitchen
Shop
Mill
Crusher
Stock pile area
Longhorn
Dexter
Longhorn #1
Longhorn #2
Chert
&
Shale
Blocky
Blue
Qtz
Cahill
Frm.
Longhorn #2
Fraction
Alternating
Series
Chert & Shale
Chert
&
Shale
SONOMA PIT
Blocky
Blue
Qtz.
Chert & Shale
Blocky
North Cahill
Adit
B-1 Adit
Walters'
Drift
SONOMA
FAULT
HAPGOOD
FAULT
Hapgood Frm.
Hapgood
Adit
Upper
Hapgood
Adit
Lower Hapgood Adit
Charlie's
Prospect
Southwestern Area of Poverty Peak
Mining District, Humboldt Co., Nev.
1956
100 50 0 100 Feet
LEGEND
Dip & Strike of Beds
Dip & Strike of Overturned Beds
Fault, (Normal)
Reverse Fault (teeth point into upper plate)
Underground Workings
Shaft
Mine Dump
Road


HARNEY COUNTY OREGON
MALHEUR COUNTY
R. 25 E.
R. 26 E.
R. 27 E.
R. 28 E.
R. 29 E.
R. 30 E.
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T. 38 N.
T. 37 N.
T. 36 N.
T. 35 N.
T. 35½ N.
ELKO COUNTY
LANDER COUNTY
PERSHING COUNTY
Denio
McDERMITT
FORT McDERMITT IND. RES.
BOUNDARY OF CHARLES SHELDON ANTELOPE RANGE
Quinn River Crossing
Orovada
Paradise Valley
TOIYABE NATIONAL FOREST
SANTA ROSA (SANTA ROSA DIVISION)
STATE GAME REFUGE
HUMBOLDT STATE GAME REFUGE BOUNDARY
SUMMIT LAKE INDIAN RESERVATION
FT. McDERMITT INDIAN RESERVATION
DANGER AREA
Davey Town
WINNEMUCCA
Pop 3000
Golconda
Pop 500
Getchell Mine
Junction
Sulphur
Antelope
Venado
Gaskell
Pronto
Krum
Raglan
Rose Creek
Bonn
Golconda Sta.
Preble
Red House
Iron Point
Herrin
Stone House
Elkon
Tale
Wasa
Bliss
Humboldt River
Quinn River
Sod House
Ninth
Standard
Parallel
North
Eighth
Seventh
To Deep Cr.
To Midas
To Battle Mtn.
To Denio
To Fields
To Jordan Valley
To Gerlach
To Rabbithole
To Rosebud
To Junipo
To Scossa
To Imlay
To Mill City
To Lovelock
To Herschell Ranch
To Guthrie Ranch
Alkali Flat
Black Rock Desert
Black Rock Range
Pine Nut Mountains
Jackson Mountains
Sonoma Range
Desert Valley
Paradise Valley
Quinn River Valley
Humboldt Range
Pueblo Mts.
Sonoma Mts.
Eden Valley
Kings River Valley
Kings River
Guide Meridian
Humboldt River
Quinn River
Antelope Creek
Horse Canyon
Rebel Creek
Thousand Creek
Cottonwood Creek
Kings Creek
Little Kings Creek
Big Creek
Little Creek
Jackson Creek
Mary Creek
Cherry Creek
Bloody Run Creek
Cow Creek
Cottonwood Creek
Rock Creek
Pine Creek
Sheep Creek
Sand Creek
Willow Creek
Cane Creek
Dry Creek
Big Creek
Little Creek
Sand