OFFICIAL FILE COPY
D M E A
RECEIVED JAN 7 1957

DATE	INITIALS	CODE
1/8	WPK	500
		225

Box 1
Arco, Idaho
Jan. 1, 1957

Administrator
Defense Minerals Exploration Administration
U.S. Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4193 Copper
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Mittendorf:

In a recent letter from Mr. Weissenborn of the Spokane, Washington DMEA office I was advised to request diredtly from Washington the information I had requested regarding the assay results of samples taken when the DMEA field team examined the Rattlesnake Copper properties. On a recent trip to Spokane I had examined the results, but would like to have a copy of my own and compare the assay values with those taken from areas of the orebody which had not been subjected to thirty years of leaching.

At the present time plans are being made to further examine the property and the general area geologically and study the croppings of sedimentary formations and the alteration halos of unexplored areas of mineralization. The continuity of mineralization of the Last Chance Ore Body continues to haunt those who previously considered the area to be purely Epithermal and examination of other orebodies at lower depth will eventually follow.

Whatever information you can give me on the results of assays and tests made on the ore will be appreciated.

Sincerely yours,

Donald G. Dahle

Donald G. Dahle

cw

File Copy
Surname
Klugescheid
Nutterman

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

DEC 28 1956

Mr. Donald G. Dahle
Post Office Box 1
Aree, Idaho

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Dahle:

We have received a letter from Mr. Weissenborn, Executive Officer, DMEA Field Team, Region I, Northwest District, dated December 14, 1956, calling our attention to the fact that we have failed to return some documents to you concerning the cited application.

We regret that through an oversight we have not returned documents marked, supporting documents, numbers 1, 2, and 3 and are enclosing them.

We hope that these are the reports to which you referred.

Sincerely yours,

W. R. Griswold, Chief,
Base Metals Division

Enclosures

WPKlugescheid/er 12/2756
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region I, N.W. Dist. (2)

RCS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED DEC 18 1956 D.M.E.A.

December 14, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho
(Denied Application)

Dear Mr. Selfridge:

Enclosed are two copies of a letter from Mr. Donald G. Dahle requesting that certain documents supporting his application for exploration assistance be returned to him.

Supporting documents, numbers 1, 2, and 3, were transmitted to Washington on February 21, 1956, along with Mr. Dahle's application. It would be appreciated if you would return these to him.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Enclosure

cc: USBM (2)
Nickelson

xxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
DEC 10 1956
D.M.E.A.

December 1[illegible], 1956

Mr. Donald G. Dahle
Post Office Box 1
Arco, Idaho

Re: Docket No. DMEA-4193 (Copper)
Rattlesnake Copper Mine
Butte County, Idaho
(Denied Application)

Dear Mr. Dahle:

This is in reply to your letter of December 10, 1956, addressed to Mr. Howard Nickelson of this office.

Our records show that there were three supporting documents to your application that you wanted returned to you. These documents were sent to our Washington, D. C. office along with your application. We requested that they be returned to you immediately.

With regard to your request of assay results, I am sorry but we in the field are not permitted to divulge this information. However, you might request this information from Mr. C. O. Mittendorf, Administrator, Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C.

If you are successful in exposing fresh unleached ground and can show that this has a considerable copper content, we will be glad to consider a new application as mentioned in Mr. Mittendorf's letter of August 21, 1956.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region 1, NW Dist.

cc: DMEA (2)
USBM (2)
Nickelson

[illegible] at USGS PMEA

Box 1
Arco, Idaho
Dec. 12, 1956

RECEIVED DEC 18 1956

[illegible] Minerals Exploration Administration
[illegible] Geological Survey
[illegible] Howard Street
[illegible], Washington

Atten: Mr. Mikelson

Dear Sir:

When I appealed to [illegible] for [illegible] the Rattlesnake Co. [illegible], the documents were [illegible] as a sporting [illegible]. The information was [illegible] received. [illegible] they are marked, but [illegible] the reproduced [illegible] of the recent Last Chance [illegible] copy of a letter [illegible] by Neuman. The [illegible] dated.

Also, [illegible] the primary [illegible] conditions [illegible] property [illegible].

[illegible] have learn[illegible] and tougher to start [illegible].

[illegible],

Donald G. Dallo

[illegible] 1956

RECEIVED
DEC 18 1956
D.M.E.A.

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

December 14, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho
(Denied Application)

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Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

Enclosure

cc: USBM (2)
Nickelson

xxxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
DEC 15 1956
D.M.E.A.

December 14, 1956

Mr. Donald G. Dahle
Post Office Box 1
Arco, Idaho

Re: Docket No. DMEA-4193 (Copper)
Rattlesnake Copper Mine
Butte County, Idaho
(Denied Application)

Dear Mr. Dahle:

This is in reply to your letter of December 10, 1956, addressed to Mr. Howard Nickelson of this office.

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If you are successful in exposing fresh unleached ground and can show that this has a considerable copper content, we will be glad to consider a new application as mentioned in Mr. Mittendorf's letter of August 21, 1956.

Sincerely yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW Dist.

cc: DMEA (2)
USBM (2)
Nickelson

File Copy
Surname
Klugescheid, Schimmel, Selfridge, Zeyhman

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

AUG 21 1956

Mr. Donald G. Buhle
Post Office Box 1
Arco, Idaho

Re: Docket No. DMEA- 4193 (Copper)
Donald G. Buhle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Buhle:

Your letter of August 10, 1956, in which you requested information about thorium has been received.

The Defense Minerals Exploration Administration does give aid in the exploration of thorium deposits. We are enclosing a copy of DMEA Order-1, as amended, in which we have underscored the ratio of contributions in thorium projects. We are also enclosing a copy of a pamplet entitled "The Defense Minerals Exploration Program."

To get the necessary information concerning any purchase program there may be in thorium, it would be advisable to write to:

Raw Materials Division
Atomic Energy Commission
Washington 25, D. C.

We regret that we were unable to act favorably on your application and reiterate our statement that, if future work in the sedimentary rocks on your property or work being done on some nearby property reveals evidence which could materially alter our opinion, be assured we will be pleased to consider a new application.

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

~~XXWRXXXXXXXXXX~~
WPKlugescheid/er 8/15/56

Sincerely yours,

G. O. Mittendorf

Administrator

Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region I, NW. Dist. (2)
Chron.

RECEIVED
AUG 13 1956

Box 1
Arco, Idaho
August 10, 1956

AUG 13 1956

Mr. C. O. Mittendorf
Administrator, Defense Minerals Exploration Administration
U. S. Department of The Interior
Washington 25, D. C.

Re: Docket No. DMEA-4193
Donald G. Dahle
Rattlesnake Copper
Butte County, Idaho

Dear Sir:

Although I do not expect to alter your decision concerning my application to DMEA for assistance in taking another look at the mineral potential of the property concerned, I do feel that another note or two may be worthwhile. I think the DMEA occupies a unique position in the mining industry at the present time. Who in his right mind would invest good money in a mineral exploration project that the DMEA with its staff of trained personnel turned down? Who would risk money where the Govt. won't risk a few bucks? At the present time the Federal Government determines in large measure which properties will be explored and developed and which will not. Combine this with the unattractive payscales of Government service and you wonder where all of the good geologists are. I don't wish to say that DMEA geologists are under par, they aren't. Every one I know is a good man doing a good job, but I do think they are inclined to follow a few too many by the thumb rules and stand a little too close to the text books.

I am aware too that a large number of the presently known mineral discoveries will never be worthy of further development. Mine may belong in this catagory. However I am sure that sooner or later an exploration program with Govt. participation will be undertaken there and that further production will result therefrom. The bismuth the U.S. Bureau of Mines was looking in 1945-6 is still standing there and the Last Chance Lead-Zinc will probably be reopened. The Ella and the Saint Louis mines await exploration below the lavas.

You have heard all of this before I am sure, but while I am writing, will you tell me if DMEA has any program as yet on thorium? Do you know, or are you able to tell us yet if a purchase program is anticipated?

I appreciate what DMEA is doing and dont mean to be a "sorehead" because my little deal wasn't considered worthy. Thank you for your consideration, and I will appreciate what information you may be able to give on the thorium.

Very truly yours,

Donald G. Dahle

Donald G. Dahle

File Copy
Surname
Klugeescheid.
Lingood
Selfridge
Hffman

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

JUL 17 1956

Mr. Donald G. Dahle
Post Office Box 1
Arco, Idaho

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Dahle:

Your letter of June 12, 1956, appealing our denial of your application for exploration assistance on the above-mentioned property has been received.

We have again reviewed all the information available to us here in Washington concerning this project and do not feel that there are sufficient favorable geologic criteria to warrant Government participation. We must therefore reaffirm our denial.

If future work in the sedimentary rocks on your property or work being done on some nearby property reveals evidence which could materially alter this opinion, be assured we will be pleased to consider a new application.

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

Sincerely yours,

G. O. Mittendorf

Administrator

WPKlugescheid/er 7/11&16/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Region I, NW Dist. (2)
Chron.

File Copy
Surname
Klugescheid
Nelson
Gehm
Selfridge
Jefferson

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

Mr. Donald G. Dahle
Post Office Box 1
Areo, Idaho

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Dahle:

Your letter of June 12, 1956, appealing our denial of your application for exploration assistance on the above-mentioned property has been received.

We have again reviewed all the information available to us here in Washington concerning this project and do not feel that there are sufficient favorable geologic criteria to warrant Government participation. We must therefore reaffirm our denial.

Should you at some future time obtain favorable information concerning the occurrence of commercial deposits in the sedimentary rocks, another application could then be submitted.

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

Sincerely yours,

Administrator

WPKlugescheid/er 7/11/56
Copy to: Docket
Admr R File
Op. Committee
Base Metals
Mr. Pennington, USBM
Mr. Kiilggaard, USGS
Region I, NW Dist. (2)
Chron.

~~KAISER ENGINEERS~~
~~DIVISION OF HENRY J. KAISER COMPANY~~
~~Contract No. A.T. (10-1-785)~~
~~P. O. BOX 219 — IDAHO FALLS, IDAHO~~

June 12, 1956

RECEIVED
JUN 15 1956

Klugsheid

Mr. Mittendorf, Administrator,
Defense Minerals Exploration Administration
U. S. Department of The Interior
Washington 25, D. C.

Re: Docket No. DMEA-4193(Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Mittendorf:

Ihave received your letter of June 4, and admit that your decision is not a complete surprise. However, in the hope that the decision may be appealed, I am writing to further explain my reasons for trying to reopen the property.

No doubt the samples taken by your examining team were not as strong as we hoped, and I am aware of the limited size of actual ore zone. It is neither rich nor big, but I was hoping your field examining team would be impressed by the strength and size of the mineralized zone surrounding the actual ore zone. I had picked the Copper Vein to center my exploration below the level because it seemed the logical location for a central shaft should the sediments below the andesite-rhyolite surface flows prove to be commercially mineralized. I am not trying to convince DMEA that the small copper showing in the Pump or Copper Vein is a significant copper occurence in itself. I do feel though that if this district has any mineral production potential it will have to be explored at depth sufficient to examine the sediments which underlie the mineralized area. As yet no mining activities have extended below the level reached in the Last Chance Vein during and after World War II, and if the conditions below are to be determined in the near future or during peace-time it will have to be done by someone with some knowledge of the district and the property, and with some faith in more favorable mineral conditions below. The surface conditions in the area are weak except for surface enrichment. Some supergene enrichment has been encountered also, but for the most-part the lavas seem to be a poor host. All I had hoped for was some DMEA assistance while I try to prove, at least as far as possible, whether the district has a future at depth. It will nowdoubt be done eventually. why not now? With a little encouragement from DMEA I think I have sufficient backing to give this thing a good try.

Very sincerely,

Donald G. Dahle

Donald G. Dahle

File Copy
Surname
Klugescheid
Kiilsgaard
Gehon
Martin
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

JUN - 4 1956

Mr. Donald G. Dahle
Post Office Box 1
Arco, Idaho

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Dahle:

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

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

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

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

Sincerely yours,

G. O. Mittendorf (for)

Administrator

WPKlugescheid/er 6/1/56

Copy to: Docket
Admr R File
Op. Committee
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Base Metals
Region I, NW Dist. (2)
Chron.

R.C.S.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

June 1, 1956

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Denial of Application for Docket No. DMEA-4193 (Copper), Donald G. Dahle, Rattlesnake Copper Mine, Butte County, Idaho

The cited application, dated February 15, 1956, was received by this office on February 24.

The Applicant proposes to rehabilitate part of the Marne Adit to permit access to the Spar and Pump veins. The estimated footage of rehabilitation necessary is 940 and the expenditure involved would be approximately $12,000.00.

After completing the rehabilitation, the plan is to explore the Pump vein below the Marne level by means of approximately 1,350 feet of diamond drilling. The estimated cost of this work would be about $7,500.00.

The Field Team examined and sampled the Pump and Spar veins on March 28 and 29, 1956.

The Spar vein is narrow and slightly mineralized from the Marne adit to a small stope; from the stope to the face of the drift the vein widens to about three feet.

SAMPLES

Description	Width Sample	Ozs. of Au per ton	Ozs. of Ag per ton	Per cent Copper
Face of the drift	2.5'	0.04	22.1	0.28
Northeast end of stope	3.0'	0.02	8.6	0.38

This vein has one small stope near the face of the drift where the vein averages 2 to 3 feet wide. The stope is 25 feet long and was mined to a height of 12 to 14 feet above the back of the drift.

The Pump vein has a small stope approximately 30 feet long, 6 feet wide, and 25 feet high which was mined by the Applicant's father. Dahle reports that 500 tons of ore averaging 3.0 to 4.0 per cent copper and 12.0 to 15.0 ounces of silver per ton were shipped from this stope.

SAMPLES

Description	Width Sample	Ozs. of Au per ton	Ozs. of Ag per ton	Per cent Copper
In drift south of Marne adit	3.0'	Trace	0.15	0.11
Across vein on pillar in stope	7.0'	0.04	10.2	0.55
Vein near northeast end of stope	4.4'	0.05	3.0	0.17
Sixty feet from face of drift (pod)	2.5'	0.02	3.4	0.58
Southeast end of the stope	2.7'	0.02	4.3	0.15
Stringers	2.0'	0.06	2.2	0.10
Stringers	2.0'	0.07	2.6	0.18

Assays of samples cut by the Field Team on the fringes of the stope indicate less than 1.0 per cent copper and a few ounces of silver.

The principal production of the area has come from the Last Chance and Hornsilver mines. The Last Chance ore shoot was mined for lead, zinc, and silver for 500 feet down its dip. The enriched portion of the Last Chance stope was well above the level of the Marne adit; consequently, there is little possibility that the grade of the ore will increase at depth.

The opinion of the Field Team is: "There seems to be no justification for drilling the Pump vein below the level and we recommend that the application be denied."

The commodity members of the Geological Survey and the Bureau of Mines concur with the conclusions of the examiners.

The grade is so low in copper that such a large expenditure for rehabilitation is certainly not warranted. The pods which have been found are so small that they could not contribute to the defense reserve, and we agree with the recommendations of the Field Team and the commodity members that a denial is in order.

W. R. Griswold

W. R. Griswold

File Copy
Surname
Klugescheid

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION 500
WASHINGTON 25, D. C.

June 1, 1956

Memorandum

To: The Administrator

From: Chief, Base Metals Division

Subject: Denial of Application for Docket No. DMEA-4193 (Copper), Donald G. Dahle, Rattlesnake Copper Mine, Butte County, Idaho

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After completing the rehabilitation, the plan is to explore the Pump vein below the Marne level by means of approximately 1,350 feet of diamond drilling. The estimated cost of this work would be about $7,500.00.

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Assays of samples cut by the Field Team on the fringes of the stope indicate less than 1.0 per cent copper and few ounces of silver.

The principal production of the area has come from the Last Chance and Hornsilver mines. The Last Chance ore shoot was mined for lead, zinc, and silver for 500 feet down its dip. The enriched portion of the Last Chance stope was well above the level of the Marne adit; consequently, there is little possibility that the grade of the ore will increase at depth.

The opinion of the Field Team is: "There seems to be no justification for drilling the Pump vein below the level and we recommend that the application be denied."

The commodity members of the Geological Survey and the Bureau of Mines concur with the conclusions of the examiners.

The grade is so low in copper that such a large expenditure for rehabilitation is certainly not warranted. The pods which have been found are so small that they could not contribute to the defense reserve, and we agree with the recommendations of the Field Team and the commodity members that a denial is in order.

W. R. Griswold

W. R. Griswold

WPKlugescheid/er

Copy to: Docket
Base Metals
Chron.

Klingselwood

IN REPLY REFER TO:

Betty

RECEIVED

MAY 24 1956

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

May 23, 1956

Re: DMEA 4193
Donald G. Dahle
Rattlesnake Mine
Butte County, Idaho
$19,452.60 - Copper

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of Field Team report

The applicant requested assistance in rehabilitating an adit in an old mine and exploring by diamond drilling a small lens of copper-silver ore. The applicant opened the adit to a point beyond the vein he proposed exploring, the Pump.

The examiners sampled points in the Pump and Spar veins and except for some silver found the veins almost devoid of values. This fact, coupled with the expectation that the tonnage is small, caused the examiners and the Field Team to recommend denial of the application.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

May 23, 1956

Re: DMEA 4193
Donald G. Duhle
Rattlesnake Mine
Butte County, Idaho
$19,452.60 - Copper

Memorandum

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

Subject: Review of Field Team report

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I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:jeh
5/23/56
cc: Director's reading 4212
Branch reading 4212
DMEA (3)
Docket file
J. W. Pennington, 3623

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

May 11, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Industry Analyst, Branch of Base Metals

Subject: Review of Field Team examination memorandum, Docket No. DMEA 4193 (copper), Donald G. Dahle, Rattlesnake mine, (Last Chance Mine), Butte County, Idaho. $19,452.60

The Field Team examination memorandum of this property by Howard B. Nickelson, Geological Survey and E. W. Parsons, Bureau of Mines, has been reviewed and found satisfactory.

It was proposed to explore the Pump vein below the Marne level by approximately 1,350 feet of diamond drilling at an estimated cost of $19,452.60.

Examination of the property by the Field Team revealed that the Pump vein is low-grade with little possibility that the grade will improve with depth.

As a result, it is concluded by the Field Team that the proposed exploration is not warranted and that the application be denied.

I agree with the conclusions and recommendations.

Jno 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

May 11, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Commodity Industry Analyst, Branch of Base Metals

Subject: Review of Field Team examination memorandum, Docket No. DMEA 4193 (copper), Donald G. Bahls, Rattlesnake mine, (Last Chance Mine), Butte County, Idaho. $19,452.60

The Field Team examination memorandum of this property by Howard B. Nickelson, Geological Survey and E. W. Parsons, Bureau of Mines, has been reviewed and found satisfactory.

It was proposed to explore the Pump vein below the Marne level by approximately 1,350 feet of diamond drilling at an estimated cost of $19,452.60.

Examination of the property by the Field Team revealed that the Pump vein is low-grade with little possibility that the grade will improve with depth.

As a result, it is concluded by the Field Team that the proposed exploration is not warranted and that the application be denied.

I agree with the conclusions and recommendations.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
R. W. Graham
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
MAY 5 - 1956

May 3, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Mine (Last Chance Mine)
Butte County, Idaho

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum by H. B. Nickelson, Geological Survey, and E. W. Parsons, Bureau of Mines, recommending that the application of D. G. Dahle for an exploration project at the Rattlesnake mine be denied.

The applicant proposed diamond drilling the Pump vein below the Marne adit. There is no indication in the portion of the Pump vein drift below the stope that significant amounts of ore persisted to the level. On the Marne level the vein is in primary ore and there is no reason to expect an increase in grade at depth.

We agree that the application should be denied.

By Field Team, Region I, NW District

for: Thomas E. Howard
Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Verne C. Fryklund Jr.
Verne C. Fryklund, Jr., Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS(SRO)
Nickelson

Reviewed by
DMEA OPERATING COMMITTEE
5-11-56
(date)

RECEIVED
MAY 7 - 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
- 1956

May 1, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: Howard B. Nickelson, Geologist, U. S. Geological Survey, and E. W. Parsons, Mining Engineer, U. S. Bureau of Mines

Subject: Field Examination Report, Docket No. DMEA-4193 (Copper), Donald G. Dahle, Rattlesnake Mine (Last Chance Mine), Butte County, Idaho

INTRODUCTION

On February 20, 1956, Donald G. Dahle submitted an application for aid at the Rattlesnake Mine; the work he proposed was to consist of rehabilitating the Marne adit and testing a small lens of copper-silver ore below the adit by diamond drilling at an estimated cost of $19,452.60.

The writers, accompanied by the applicant, examined the property on March 28 and 29, 1956. The examination showed an "ore shoot" approximately 30 feet long and 6 feet wide. Although the applicant reports shipments assaying approximately 4.0 percent copper and 12.0 to 15.0 ounces of silver per ton, samples cut during the examination from the fringe of the small stope assayed less than 1.0 percent copper and a few ounces of silver.

Recommendation

It is recommended that the application be denied because the deposit is small and below ore grade.

LOCATION AND ACCESSIBILITY

The property is in the Lava Creek Mining District on Champagne Creek in secs. 10, 11, 14, and 15, T. 2 N., R. 24 E., Boise Meridian, Butte County, Idaho.

The roads to the mine are easily accessible throughout most of the year; some snow removal may be necessary during the late winter months.

Reviewed by
DMEA OPERATING COMMITTEE
5-11-56
(date)

PROPERTY

The applicant owns five contiguous unpatented claims: the Marne, formerly the Rattlesnake; Marne Ext. No. 1; Apex; Westside; and Northside, also known as the Bannock. The Marne Claim, staked in 1884, is recorded on page 36 of Book 1 and the other claims, staked in 1955, are recorded in Book 7, pages 134 through 137, at the courthouse in Arco, Idaho. The locations of the claims are shown on plate 1, a surface geological map of the mine area. This map was submitted with the application.

The applicant is a graduate mining engineer with several years experience with large mining companies and is capable of carrying out the work proposed. It is believed he is financially able to fulfill his share of the proposed contract.

Description of the Property

The underground workings of this mine and the adjoining properties are shown on plate 1 and plate 2 which are copied from the maps submitted in the application. These maps were taken from the following reports: Unpublished U. S. Bureau of Mines War Minerals Report dated June 1944; and Investigation of the Hornsilver Lead-Zinc Property, Robert N. Robey, U. S. Bureau of Mines RI 4277, 1948. The examiners' sketch of the Pump and Spar veins was added to plate 2.

The applicant proposes exploration on the Pump vein, one of the veins cut by the Marne adit. The Marne adit was rehabilitated for a distance of 350 feet by the applicant in 1955, and it is accessible for inspection to approximately 100 feet beyond the Pump vein.

GEOLOGY

In addition to the two reports already cited, the geology of the district has been described by A. L. Anderson (Geology and Ore Deposits of the Lava Creek District, Idaho Bureau of Mines and Geology, Pam. 32, 1929).

The veins in the area occur in Tertiary andesites and volcanic rocks underlain by rocks of Mississippian age. The andesites are generally altered and are cut by mineralized fault structures that strike N. to N. 20° E. and generally dip steeply to the northwest.

The principal production of the area has come from the Last Chance and Hornsilver mines. These are probably on the same structure. The Last Chance vein strikes approximately N. 28° E. and dips 65°-80° W. The Last Chance ore shoot, which is approximately 150 feet in length, was mined for lead, zinc, and silver for 500 feet down its dip.

The Marne adit, driven to facilitate the mining of the Last Chance ore shoot, crossed the Spar vein, Pump vein, and the Iron vein. Drifting on these veins has encountered several small mineralized lenses, usually of marginal grade. The Spar vein strikes about N. 30° E. and dips 80° W. It is narrow and slightly mineralized from the Marne adit to the small stope; from the stope to the face the vein widens to approximately 3 feet. A sample cut across 2.5 feet at the face of the drift assayed 0.04 ounce of gold per ton, 22.1 ounces of silver per ton, and 0.28 percent copper. A sample cut at the northeast end of the stope across 3 feet assayed 0.02 ounce of gold per ton, 8.6 ounces of silver per ton, and 0.38 percent copper. The Spar vein has one small stope near the face of the drift where the vein averages 2 to 3 feet wide. The stope is 25 feet long and was mined 12 to 14 feet above the back of the drift. Minerals recognized in this vein are marcasite, pyrite, a dark sulfide (probably tetrahedrite), and quartz.

The Pump vein strikes about N. 30° E. and dips 55°-70° W. It has a small stope approximately 30 feet long, 6 feet wide and 25 feet high which was mined by the applicant's father. Dahle reports that his father shipped about 500 tons of ore averaging 3.0 to 4.0 percent copper and 12.0 to 15.0 ounces of silver per ton. Assays from samples cut by the writers on the fringes of the stope indicate less than 1.0 percent copper and a few ounces of silver (pl. 2). If 3.0 to 4.0 percent copper did exist, it must have been localized in the stoped area.

The silicified zone on the Pump vein, shown in dark green on plate 2, is crisscrossed with minor fractures filled with marcasite or pyrite, and the walls of the openings in this zone are covered with delicate iron and copper sulfate crystals. Beyond the stope, north along the Pump vein drift the silicified zone narrows and the sulfide minerals are almost absent. South of the Marne adit the vein weakens but the silicified wall rock contains numerous fractures filled with pyrite. The vein in back of the stope appears as strong as it is in the drift but, reportedly, the copper and silver values are lower.

A sample cut on the Pump vein in the drift south of the Marne adit cut across 3 feet assayed trace of gold, 0.15 ounce of silver per ton, and 0.11 percent copper. A 7-foot sample across the vein of a pillar in the stope assayed 0.04 ounce of gold per ton, 10.2 ounces of silver per ton, and 0.55 percent copper; this sample is representative of the material mined in the stope. A sample cut across a width of 4.4 feet on the vein near the northeast end of the stope assayed 0.05 ounce of gold per ton, 3.0 ounces of silver per ton, and 0.17 percent copper. Sixty feet from the face of the drift on the Pump vein a sample cut across 2.5 feet of a small pod of ore assayed 0.02 ounce of gold per ton, 3.4 ounces of silver per ton, and 0.58 percent copper.

A sample on the southwest end of the stope across 2.7 feet assayed 0.02 ounce of gold per ton, 4.3 ounces of silver per ton, and 0.15 percent copper. Two samples cut from stringers each about 2 feet wide in the crosscut of the stope assayed 0.06 ounce of gold per ton, 2.2 ounces of silver per ton, and 0.10 percent copper; and 0.07 ounce of gold per ton, 2.60 ounces of silver per ton, and 0.18 percent copper.

The Iron vein strikes N. 5° E. and dips steeply west; the vein has not been stoped.

APPLICANT'S PROPOSAL AND CONCLUSIONS

The applicant wishes to explore the Pump vein below the Marne level by means of approximately 1,350 feet of diamond drilling.

The assays of samples taken along the Pump vein show that the vein is very much below ore grade. The vein is not leached. The enriched portion of the Last Chance stope was well above the Marne level; consequently, there is little possibility that the grade of the ore will increase at depth.

There seems to be no justification for drilling this vein below the level and we recommend that the application be denied.

Attachments 2

Distribution:
DMEA (4)
USBM (5)
USGS(SRO)
Docket
Nickelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
MAY 7 - 1956

May 3, 1956

Betty

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Mine (Last Chance Mine)
Butte County, Idaho

Dear Mr. Selfridge:

Enclosed are four copies of a memorandum by H. B. Nickelson, Geological Survey, and E. W. Parsons, Bureau of Mines, recommending that the application of D. G. Dahle for an exploration project at the Rattlesnake mine be denied.

The applicant proposed diamond drilling the Pump vein below the Marne adit. There is no indication in the portion of the Pump vein drift below the stope that significant amounts of ore persisted to the level. On the Marne level the vein is in primary ore and there is no reason to expect an increase in grade at depth.

We agree that the application should be denied.

By Field Team, Region I, NW District

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Verne C. Fryklund, Jr., Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS(SRO)
Nickelson

Reviewed by
DMEA OPERATING COMMITTEE
5-11-56

DMEA

RECEIVED
MAY 7 - 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
So. 157 Howard Street
Spokane 4, Washington

May 1, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: Howard B. Nickelson, Geologist, U. S. Geological Survey, and E. W. Parsons, Mining Engineer, U. S. Bureau of Mines

Subject: Field Examination Report, Docket No. DMEA-4193 (Copper), Donald G. Dahle, Rattlesnake Mine (Last Chance Mine), Butte County, Idaho

INTRODUCTION

On February 20, 1956, Donald G. Dahle submitted an application for aid at the Rattlesnake Mine; the work he proposed was to consist of rehabilitating the Marne adit and testing a small lens of copper-silver ore below the adit by diamond drilling at an estimated cost of $19,452.60.

The writers, accompanied by the applicant, examined the property on March 28 and 29, 1956. The examination showed an "ore shoot" approximately 30 feet long and 6 feet wide. Although the applicant reports shipments assaying approximately 4.0 percent copper and 12.0 to 15.0 ounces of silver per ton, samples cut during the examination from the fringe of the small stope assayed less than 1.0 percent copper and a few ounces of silver.

Recommendation

It is recommended that the application be denied because the deposit is small and below ore grade.

LOCATION AND ACCESSIBILITY

The property is in the Lava Creek Mining District on Champagne Creek in secs. 10, 11, 14, and 15, T. 2 N., R. 24 E., Boise Meridian, Butte County, Idaho.

The roads to the mine are easily accessible throughout most of the year; some snow removal may be necessary during the late winter months.

Reviewed by
DMEA OPERATING COMMITTEE
5-11-56
(date)

PROPERTY

The applicant owns five contiguous unpatented claims: the Marne, formerly the Rattlesnake; Marne Ext. No. 1; Apex; Westside; and Northside, also known as the Bannock. The Marne Claim, staked in 1884, is recorded on page 36 of Book 1 and the other claims, staked in 1955, are recorded in Book 7, pages 134 through 137, at the courthouse in Arco, Idaho. The locations of the claims are shown on plate 1, a surface geological map of the mine area. This map was submitted with the application.

The applicant is a graduate mining engineer with several years experience with large mining companies and is capable of carrying out the work proposed. It is believed he is financially able to fulfill his share of the proposed contract.

Description of the Property

The underground workings of this mine and the adjoining properties are shown on plate 1 and plate 2 which are copied from the maps submitted in the application. These maps were taken from the following reports: Unpublished U. S. Bureau of Mines War Minerals Report dated June 1944; and Investigation of the Hornsilver Lead-Zinc Property, Robert N. Robey, U. S. Bureau of Mines RI 4277, 1948. The examiners' sketch of the Pump and Spar veins was added to plate 2.

The applicant proposes exploration on the Pump vein, one of the veins cut by the Marne adit. The Marne adit was rehabilitated for a distance of 350 feet by the applicant in 1955, and it is accessible for inspection to approximately 100 feet beyond the Pump vein.

GEOLOGY

In addition to the two reports already cited, the geology of the district has been described by A. L. Anderson (Geology and Ore Deposits of the Lava Creek District, Idaho Bureau of Mines and Geology, Pam. 32, 1929).

The veins in the area occur in Tertiary andesites and volcanic rocks underlain by rocks of Mississippian age. The andesites are generally altered and are cut by mineralized fault structures that strike N. to N. 20° E. and generally dip steeply to the northwest.

The principal production of the area has come from the Last Chance and Hornsilver mines. These are probably on the same structure. The Last Chance vein strikes approximately N. 28° E. and dips 65°-80° W. The Last Chance ore shoot, which is approximately 150 feet in length, was mined for lead, zinc, and silver for 500 feet down its dip.

The Marne adit, driven to facilitate the mining of the Last Chance ore shoot, crossed the Spar vein, Pump vein, and the Iron vein. Drifting on these veins has encountered several small mineralized lenses, usually of marginal grade. The Spar vein strikes about N. 30° E. and dips 80° W. It is narrow and slightly mineralized from the Marne adit to the small stope; from the stope to the face the vein widens to approximately 3 feet. A sample cut across 2.5 feet at the face of the drift assayed 0.04 ounce of gold per ton, 22.1 ounces of silver per ton, and 0.28 percent copper. A sample cut at the northeast end of the stope across 3 feet assayed 0.02 ounce of gold per ton, 8.6 ounces of silver per ton, and 0.38 percent copper. The Spar vein has one small stope near the face of the drift where the vein averages 2 to 3 feet wide. The stope is 25 feet long and was mined 12 to 14 feet above the back of the drift. Minerals recognized in this vein are marcasite, pyrite, a dark sulfide (probably tetrahedrite), and quartz.

The Pump vein strikes about N. 30° E. and dips 55°-70° W. It has a small stope approximately 30 feet long, 6 feet wide and 25 feet high which was mined by the applicant's father. Dahle reports that his father shipped about 500 tons of ore averaging 3.0 to 4.0 percent copper and 12.0 to 15.0 ounces of silver per ton. Assays from samples cut by the writers on the fringes of the stope indicate less than 1.0 percent copper and a few ounces of silver (pl. 2). If 3.0 to 4.0 percent copper did exist, it must have been localized in the stoped area.

The silicified zone on the Pump vein, shown in dark green on plate 2, is crisscrossed with minor fractures filled with marcasite or pyrite, and the walls of the openings in this zone are covered with delicate iron and copper sulfate crystals. Beyond the stope, north along the Pump vein drift the silicified zone narrows and the sulfide minerals are almost absent. South of the Marne adit the vein weakens but the silicified wall rock contains numerous fractures filled with pyrite. The vein in back of the stope appears as strong as it is in the drift but, reportedly, the copper and silver values are lower.

A sample cut on the Pump vein in the drift south of the Marne adit cut across 3 feet assayed trace of gold, 0.15 ounce of silver per ton, and 0.11 percent copper. A 7-foot sample across the vein of a pillar in the stope assayed 0.04 ounce of gold per ton, 10.2 ounces of silver per ton, and 0.55 percent copper; this sample is representative of the material mined in the stope. A sample cut across a width of 4.4 feet on the vein near the northeast end of the stope assayed 0.05 ounce of gold per ton, 3.0 ounces of silver per ton, and 0.17 percent copper. Sixty feet from the face of the drift on the Pump vein a sample cut across 2.5 feet of a small pod of ore assayed 0.02 ounce of gold per ton, 3.4 ounces of silver per ton, and 0.58 percent copper.

A sample on the southwest end of the stope across 2.7 feet assayed 0.02 ounce of gold per ton, 4.3 ounces of silver per ton, and 0.15 percent copper. Two samples cut from stringers each about 2 feet wide in the crosscut of the stope assayed 0.06 ounce of gold per ton, 2.2 ounces of silver per ton, and 0.10 percent copper; and 0.07 ounce of gold per ton, 2.60 ounces of silver per ton, and 0.18 percent copper.

The Iron vein strikes N. 5° E. and dips steeply west; the vein has not been stoped.

APPLICANT'S PROPOSAL AND CONCLUSIONS

The applicant wishes to explore the Pump vein below the Marne level by means of approximately 1,350 feet of diamond drilling.

The assays of samples taken along the Pump vein show that the vein is very much below ore grade. The vein is not leached. The enriched portion of the Last Chance stope was well above the Marne level; consequently, there is little possibility that the grade of the ore will increase at depth.

There seems to be no justification for drilling this vein below the level and we recommend that the application be denied.

Attachments 2

Distribution:
DMEA (4)
USBM (5)
USGS(SRO)
Docket
Nickelson

File Copy
Surname
Klugescheid
Friemoed
Selfridge
Johnson

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

500

MAR 16 1956

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4193 (Copper)
Donald G. Buhle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Weissenborn:

The cited application for exploration assistance is being referred to your office for consideration, a field examination of the property if warranted, and recommendation.

No drill hole sizes have been given and no bids submitted.

Copies of memoranda dated March 1 and 6, 1956, by T. H. Kiilsgaard, Geological Survey, and J. W. Pennington, Bureau of Mines, respectively, relating to the project, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (WB)

WPKlugescheid/bjl(3/14/56) rewritten 3/15/56
Copy to: Docket
Admr File
Op. Committee
Mr. Pennington, USBM
Mr. Kiilsgaard, USGS
Base Metals
Chron.

APPROVED:

/s/ Robert W. Geehan (WB)
Member, Bureau of Mines

Thor H. Kiilsgaard (WB)
Member, Geological Survey

Enclosures

R.C.S.

File Copy
Surname
Klugescheid
Griswold
Kiilsgaard
Geehen
Selfridge
Hoffman

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

MAR 16 1956

Mr. Donald G. Dahle
P. O. Box 1
Arco, Idaho

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Dahle:

Your application for Government assistance to explore the cited property has been reviewed by the Base Metals Division of the Defense Minerals Exploration Administration and has been referred to:

Mr. A. E. Weissenborn
Executive Officer
DMEA Field Team, Region I
Northwest District
South 157 Howard Street
Spokane 4, Washington

If the Field Team requires additional information concerning your application, they will contact you at an early date.

Sincerely yours,

H. G. Mittenthal

Administrator

WPKlugescheid/bjl (3/14/56)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Pennington
Mr. Kiilsgaard
Chron.

P.C.L.

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

RECEIVED
MAR - 7 1956

March 6, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of application, Docket No. DMEA 4193 (copper), Donald G. Dahle, Rattlesnake Copper Mine, Butte County, Idaho, $19,452.60

It is proposed to explore this property by rehabilitation of the Marne Adit to gain access to the Spar and Pump Veins; drilling of four holes totaling about 400 feet from the Spar Vein drift to locate the strongest mineralization of the Pump Vein; drilling of three holes aggregating approximately 450 feet from the Spar Vein drift to determine the dip of the Pump Vein, and drilling of two holes totaling about 500 feet from an undetermined site to explore area 200 feet below the Marne Adit at an estimated cost of $19,452.60.

All costs appear reasonable except the sampling, assaying, and accounting items of $0.60 a foot seems low.

It is believed that the proposed drilling would attain the objectives, but perhaps other spacing locations of the drill holes would provide more information on the lateral and vertical extent of the mineralization.

Referral of the application is recommended for an examination of the property and evaluation of the program.

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

RECEIVED
MAR - 7 1956

March 6, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

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

Subject: Review of application, Docket No. DMEA 4193 (copper), Donald G. Bable, Rattlesnake Copper Mine, Butte County, Idaho, $19,452.60

It is proposed to explore this property by rehabilitation of the Marne Adit to gain access to the Spar and Pump Veins; drilling of four holes totaling about 400 feet from the Spar Vein drift to locate the strongest mineralization of the Pump Vein; drilling of three holes aggregating approximately 450 feet from the Spar Vein drift to determine the dip of the Pump Vein, and drilling of two holes totaling about 500 feet from an undetermined site to explore area 200 feet below the Marne Adit at an estimated cost of $19,452.60.

All costs appear reasonable except the sampling, assaying, and accounting items of $0.68 a foot seems low.

It is believed that the proposed drilling would attain the objectives, but perhaps other spacing locations of the drill holes would provide more information on the lateral and vertical extent of the mineralization.

Referral of the application is recommended for an examination of the property and evaluation of the program.

J. W. Pennington

J. W. Pennington

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

IN REPLY REFER TO:

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

RECEIVED
MAR - 2 1956

March 1, 1956

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: Thor H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application, DMEA Docket 4193, Rattlesnake Copper mine, Butte County, Idaho.

The applicant proposes to rehabilitate 940 feet of the Marne Adit, the lowest haulage level of the old Last Chance mine, and then to diamond drill 1,350 feet from the adit level to test the downward continuation of the Pump and Spar veins. Estimated cost of the project is $19,452.00.

The Pump and Spar are reported to have been worked by the applicant's father in 1937. A small stope on the Pump vein yielded 500 tons of ore assaying 4 percent copper, 20 ounces of silver, and about .10 ounce gold per ton.

The main producer at the Last Chance mine has been the Last Chance vein, a strong vein outcropping in a wide zone of highly-altered andesite. This zone is continuous for almost half a mile to the north where it forms the wall rock of the Hornsilver mine. The Last Chance and Hornsilver are the only mines in the immediate district of any notable production. The Last Chance ore shoot has been mined down the rake to a distance of 600 feet below the outcrop. Throughout this distance the shoot has averaged 5 feet in width and 150 feet in strike length. Production from this ore shoot during the period 1941 to April 1946 amounted to 14,562 tons, having an average metal content of 6.53 percent zinc, 3.58 percent lead, 0.26 percent copper, 2.62 ounces silver, and 0.027 ounce gold. It is reported that when mining operations in the ore shoot ceased there remained near the bottom of a 100-foot winze below the Marne level an estimated 1,000 tons of ore. Mining of this ore was unprofitable because of the loose and caving nature of the ground.

The Pump and Spar veins appear to have been insignificant structures not deemed worthy of exploration by the Horn Silver Consolidated Mines Co. where crosscut by the Marne Adit. This observation seems to be in part borne out by the narrow zones of wall rock alteration that enclose the veins at the outcrop. Neither of these alteration zones is comparable to that enclosing the Last Chance vein. The narrow widths of the veins, the limited production and probable small size of the ore bodies, and the limited wall rock alteration make successful exploration of the veins by diamond drilling doubtful. Certainly, there seems to be no reason for Series 1 holes and little reason for holes in Series 2. Holes in Series 3 would give a better look at the vein.

Field examiners might discuss with the applicant the possibility of rehabilitating the Marne level to the Last Chance vein and putting some down holes under the Last Chance ore shoot. Such holes could show the habit of the vein in the underlying Mississippian sediments. If the shoot did not maintain its size and grade in these sediments there would appear to be a questionable future for the mine.

Refer to the Field Team for field examination.

Thor H. Kiilsgaard

Thor H. Kiilsgaard

IN REPLY REFER TO:

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

RECEIVED
MAR - 2 1956

March 1, 1956

Memorandum

To: W. E. Griswold, Defense Minerals Exploration Administration

From: Thor H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application, DMEA Docket 4193, Rattlesnake Copper mine, Butte County, Idaho.

The applicant proposes to rehabilitate 940 feet of the Marne Adit, the lowest haulage level of the old Last Chance mine, and then to diamond drill 1,350 feet from the adit level to test the downward continuation of the Pump and Spar veins. Estimated cost of the project is $19,452.00.

The Pump and Spar are reported to have been worked by the applicant's father in 1937. A small stope on the Pump vein yielded 500 tons of ore assaying 4 percent copper, 20 ounces of silver, and about .10 ounce gold per ton.

The main producer at the Last Chance mine has been the Last Chance vein, a strong vein outcropping in a wide zone of highly-altered andesite. This zone is continuous for almost half a mile to the north where it forms the wall rock of the Hornsilver mine. The Last Chance and Hornsilver are the only mines in the immediate district of any notable production. The Last Chance ore shoot has been mined down the raka to a distance of 600 feet below the outcrop. Throughout this distance the shoot has averaged 5 feet in width and 150 feet in strike length. Production from this ore shoot during the period 1941 to April 1946 amounted to 14,562 tons, having an average metal content of 6.53 percent zinc, 3.58 percent lead, 0.26 percent copper, 2.62 ounces silver, and 0.027 ounce gold. It is reported that when mining operations in the ore shoot ceased there remained near the bottom of a 100-foot winze below the Marne level an estimated 1,000 tons of ore. Mining of this ore was unprofitable because of the loose and caving nature of the ground.

The Pump and Spur veins appear to have been insignificant structures not deemed worthy of exploration by the Horn Silver Consolidated Mines Co. where crosscut by the Horne Adit. This observation seems to be in part borne out by the narrow zones of wall rock alteration that enclose the veins at the outcrop. Neither of these alteration zones is comparable to that enclosing the Last Chance vein. The narrow widths of the veins, the limited production and probable small size of the ore bodies, and the limited wall rock alteration make successful exploration of the veins by diamond drilling doubtful. Certainly, there seems to be no reason for Series 1 holes and little reason for holes in Series 2. Holes in Series 3 would give a better look at the vein.

Field examiners might discuss with the applicant the possibility of rehabilitating the Horne level to the Last Chance vein and putting some down holes under the Last Chance ore shoot. Such holes could show the habit of the vein in the underlying Mississippian sediments. If the shoot did not maintain its size and grade in these sediments there would appear to be a questionable future for the mine.

Refer to the Field Team for field examination.

Thor H. Kiilsgaard

THKiilsgaard:iml
G-3/1/56

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 3623

Subject: DMEA-4193
Re:Rattlesnake Copper Mine

Dondald G. Dahle
P.O. Box 1
Arco, Idaho

February 28, 1956

Dear Sir:

The receipt of your application dated February 15, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4193 and referred to the Base Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

February 28, 1956

1 NW

1 NW

-4193 Donald G. Dahle

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
FEB 24 1956

February 21, 1956

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Transmittal of an Application for
Aid in an Exploration Project (copper-silver)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Selfridge:

Enclosed are three copies of an application submitted by Donald G. Dahle of Arco, Idaho. One copy of the Form MF-103 together with one set of maps has been retained for our files. You will note that the applicant requests that Supporting Documents No. 1, 2, and 3 be returned to him. These are the only copies submitted by the applicant.

Sincerely yours,

J. J. Quinlan

J. J. Quinlan
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: USBM(2)

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
FEB 24 1956

RECEIVED
FEB 20 1956
U. S. G. S.
SPOKANE, WASH

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. 4193
Metal or Mineral Copper
Date Received 2-24-56
Estimated Cost 19,452.60
Participation (Government %) 50

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: DONALD G. DAHLE
P. O. BOX 1
ARCO, IDAHO

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See page 1, attached

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

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

(*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

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

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 Principally Copper, with accompanying Silver and minor Gold

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

(*c*) The work will start within 30 days and be completed within 120 ~~months~~ Days 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 [X] 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 February 15, 1956

Donald G. Dahle
(Applicant)

By DONALD G. DAHLE

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

Additional Information for DMEA Application

D. G. Dahle
Rattlesnake
Copper Mine

3. Applicant's property rights--

(a) Legal description of land to be included in this exploration proposal is as follows: Five (5) unpatented Lode Mining Claims, the Marne, Marne Ext. #1, Apex, Westside, and Northside, (also known as the Bannock). All claims are contingent, see Fig. 1. These claims are located in the Lava Creek Mining Dist. on Champagne Creek, in Sects 10, 11, 14, 15, of Township 2N, Range 24E, Boise Meridian, Butte County, Idaho. Actual exploration will be limited to the Marne Claim, however successful results may benefit the other claims. Adjoining these claims on the North and East is the Last Chance-Hornsilver Group of patented claims and these are not included in this application. They are not likely to be benefitted directly from this exploration.

(b) This venture is now being operated as the Rattlesnake Copper Mine.

(c) The applicant is the whole owner of the claims concerned, having purchased the Marne claim from the widow of one of the original locaters, and having located the other claims as abandoned mining claims during the summer of 1955. These five kkkkk claims were previously controlled by the Era Mining and Development Co. now defunct.

(d) Does not apply.

(e) There are no liens or other encumbrances against the property.

(f) The above described claims are recorded as follows: The Marne was originally located as the Rattlesnake in 1884 and is recorded on page 36 of Book 1. The other claims were located during July, 1955, and recorded in Book 7, Pages 134 thru 137.

4. Physical description--

(a) The Marne Adit was driven by the Horn Silver Consolidated Mines Co. during the late 1020's to explore the Last Chance Vein at lower elevation. The applicant's father was an official in the Company during that time. Sub-marginal ore and low metal prices forced closure of the mine in late 1937. During the last year of operation by the Horn Silver Cons. the applicant's father operated on a lease from the Co. and explored the Spar Vein, Pump Vein, and Iron Vein to the extent shown on Fig. 2. A small stope above level on the Pump Vein was opened and a small tonnage of ore was shipped. The grade leaned upward so a short winze was driven below level but was not advanced sufficiently to prove the existance of commercial ore. The small tonnage removed from below track proved kk of better grade than that from the stope above however. The Horn Silver Cons went defunct in 1937 and the lease was voided.

The Era Mining and Development Co. successfully reopened the property during the early 1940's and mined a substantial tonnage from the Last Chance Vein. During the War the production bonus on zinc allowed a small margin of profit. When the bonus was removed the property was closed. The Era did not undertake development of any of the other zones of mineralization shown on Fig. 2. and no ore was shipped from them.

The applicant purchased the Marne claim in 1951 with the intention of exploring the Pump Vein copper below the kk Marne Level. Reopening of the level began in 1955 but has been suspended for the winter.

The Era Mining and Dev. Co. removed all of the rail from the Marne Adit when they closed down and left the portal open to the natural drafts resulting from approx. 350 of vertical development above the level to the surface. During the Winter the strong inbound drafts would freeze the water draining from the mine as far back as 600 feet from the portal and the ice would build up to depths of six feet. The ribs of the drift were badly eroded and the timber severly damaged.

During the Summer of 1955 the Adit was opened sufficiently to allow examination and estimation of the task of renovation. Track was laid to a depth of 350 feet and some timber was repaired. Caved material was removed to the same depth and in places was ofer seven feet deep for distances of 40 or 50 feet. An area of severe caving and rotted timber forced the applicant to secure more assistance financially before continuing. The area is passable, but should be completely retimbered and the large cavities above timber cribbed up.

The property is now accessible except for snow on the road. The equipment on the property is as follows: one 125 cfm rotary air compressor, one Model 12-B Eimco Mucker, three mine cars, one D-2 Cat tractor with Dozer, 400' mine track, 400' 2" air line, enough timber for 40' of timbering and miscellaneous small tools.

(b) The only production from the area to be explored was made by the applicant's father during the mid-1930's. Approximately 500 tons were shipped from the Pump Vein in 1937. The applicant has been unable to acquire a smelter record of that production, but his father's records show a gross value of slightly better than $14.00/ton. The copper averaged a little over 4%, and the silver about 20 oz., with about $3.50 in gold. The ore from below track level ran somewhat better than that from the stope above. At present there are no mineable ore reserves on the property.

(c) The Geology of the District has been described by A. L. Anderson for the Idaho Bureau of Mines and Geology, and by Robert N. Roby for the U. S. Bureau of Mines. The latter report is appended to this application but the applicant requests its REturn. Figures 1 and 2 attached, show the relationship of the veins to each other and the general geology of the area. The Pump vein is not described by Roby, but its geology is similar to the others. The Iron Vein and the Pump Vein appear to intersect to the Northeast on strike, and the Spar Vein appears to be a split from the pump vein at depth.. All three veins show copper values and accompanying gold and silver, and the areas between them are weakly mineralized. The Rake or Plunge or the orebodies of these veins have not been established but are likely to follow the Last Chance which dips West and Rakes 45° to the North.

(d) The property is accessible by well-maintained State and County roads. It is 18 miles Southwest of Arco, the county seat of Butte County and the nearest rail point. There are no housing facilities on the property and for the purpose of this exploration it is not intended to provide housing. The labor crew can commute easily from Arco.

(e) Manpower for operating the property is available in the vacinity of Arco, but will be strongly influenced by the construction projects of the Atomic Energy Commission on the Arco desert where contractors pay $2.00/hr. plus $5.00/day for travel for common labor.

Paragraph 4 (e) Cont.

Hardware amd materials are available in Arco or nearby Mackay, or can be shipped from Pocatello or Salt Lake City by rail or truck.

There is no timber on the property and timber suitable for mine timber will have to be hauled from 50 to 100 miles to the property. Three timber producers in the area offer dimensional timber at $60 to $70 per thousand. Round timber for posts and caps will cost about 20¢ per running foot.

Water is in limited supply in the area. Springs are fed by rains and melting snow, and have not been extensively developed. Water from the mine contains more than 100 parts per million in dissolved copper and has a ph value of 2 to 3. The water from beyond the copper mineralization may be suitable for diamond drilling and other mine purposes however.

Electric power is not available at present. An REA line passes three miles from the property but is single-phase only. High voltage three-phase power is available in Arco should it become necessary.

5. The Exploration project--

(a) This exploration project is intended to confirm the presence or absence of commercial copper ore below the Marne Level in the region of the Pump Vein. Some gold and silver should be associated with the copper.

(b) It is proposed that the Marne Adit be renovated sufficient to allow access to the Spar and Pump Veins. See Fig. 2 and Fig. 3. This renovation will involve the removal and replacement of rotted timber where necessary and the removal of all caved material and other spoil. Cribbing will be required in many places to fill the void above the timber. Mine track will be installed and air line sufficient to operate equipment underground. A drain ditch will be required for the entire length of the renovation to keep the caustic water off the rail and pipe. When the drift renovation will allow, a diamond drilling program will be initiated by drilling three series of holes to penetrate the vein structure at different elevations below the level. Series #1 will be drilled from the Spar Vein as shown on Fig. 4-A to locate the strongest region of mineralization. Series #2 will also be drilled from the Spar Vein and will serve to determine the Rake of the orebody. Series #3 will be drilled from a point to be determined later, and will serve one of two purposes, either to confirm the presence of ore 200' below track and explore the vein below the split with the Spar vein, or to probe for the bottom of the lavas and help establish the continuity of the veins down in the sediments. Drill Holes of Series #2 and #3 are shown on Figs. 4-B and 4-C respectively. It is interesting to speculate as to the conditions below the lavas should these veins pass through favorable beds of limestone or dolomite which appear to underlie the entire area.

(c) Work will start within 30 days and will be completed within 120 days of a contract.

(d) The applicant is a graduate mining engineer and has more than 10 years of varied mining experience including service as a mine engineer and as a mine geologist. He is familiar with the property involved and intends to supervise the exploration personally.

6. Cost Estimate--.

(a) Independent Contracts--

The diamond drilling phase of the program may be placed on an independent contract. Allowing a maximum of 1600feet of hole at a probable cost of $5.50 per foot this program should cost approximately $8,800.00.

(b) Labor, Supervision, etc.

2	miners	@ $16.00/shift	$32.00
½	surface laborer	@ 16.00/shift	8.00
½	engineer superviser	@ $600/month	12.00
		Total Labor	$52.00
	Payroll taxes, insurance, compensation, etc @ 11%		5.72
		Total	$57.72/shift
	Allowing an average of 10 feet advance per shift		$5.77/foot
	Sampling, Assaying, and accounting @ $6.00/shift		0.60/foot

(c) Operating material and supplies--

	Cost per foot advance
Mine rail @ $210/ton (20 lb.)	$0.70
Plates, bolts, spikes etc.	0.10
Track ties 4 X 6 X 30 inches	0.20
Air Line 4" Victaulic coupling	1.25
Timber; posts, caps, lagging, cribbing installed	8.00
Power; gas, oil,etc.	0.50
Repair parts	0.40
Miscellaneous	0.25
Total	$11.40/ft

(d) Operating Equipment-- Depreciation schedule of Equipment

Item	Value	Dep. Allowance
125 cfm compressor	$4000	$66.67
12-B Eimco Mucker	$4000	$66.67
1½ton truck	$2200	$36.67
3 mine cars @ $100	300	5.00
jackhammer	300	5.00
Pneumatic saw for removing timber	300	5.00
Chain saw for framing timber	300	5.00
Air redeiver	150	2.50
	Total	$192.51/month

$192.51/month @25 shifts/month and 10 feet/shift $0.77/ft

(e) (f) Estimated cost of moving a small shop building owned by applicant to the property and locating same. To be moved 12 miles at $5.00/mile $60.00

Recap

Renovation Summary

Total drift footage to be renovated which will require timber 340 feet @ $18.54/ft
$5,703.60

Total drift footage to be renovated not requiring timber 600 feet @ $10.54/ft
$6,324.00

Total diamond drilling allowing planned 1350 feet @ $5.50/ft
$7,425.00

Total $ 19,452.60

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

Sincerely yours,

Administrator

Mr. Donald G. Dahle
Post Office Box 1
Arco, Idaho

Re: Docket No. DMEA-4193 (Copper)
Donald G. Dahle
Rattlesnake Copper Mine
Butte County, Idaho

Dear Mr. Dahle:

Your letter of June 12, 1956, appealing our denial of your application for exploration assistance on the above-mentioned property, has been received.

We have again reviewed all the information available to us here in Washington concerning this project and do not feel that there is sufficient favorable geologic criteria to warrant Government participation. We must therefore reaffirm our denial.

~~can change our decision. The copper content of the showings is so low and the mineralized area involved is so small that no assistance is warranted.~~

~~The possibility of finding ore deposits in the sedimentary rocks under the flows is still to be proven and to date there has been no definite indication in this direction. Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding materials of acceptable grade in quantities which will significantly improve the mineral supply position for the National Defense Program and in this case the promise is not there.~~

Should you, at some future time, obtain favorable information concerning the of commercial finding deposits in the sedimentaries, a new application would certainly receive our most careful attention.

FIG. 4-B PLAN & SECT.
SHOWING PROPOSED
DIAMOND DRILL
HOLES NO. 5-6-7

D G DAHLE

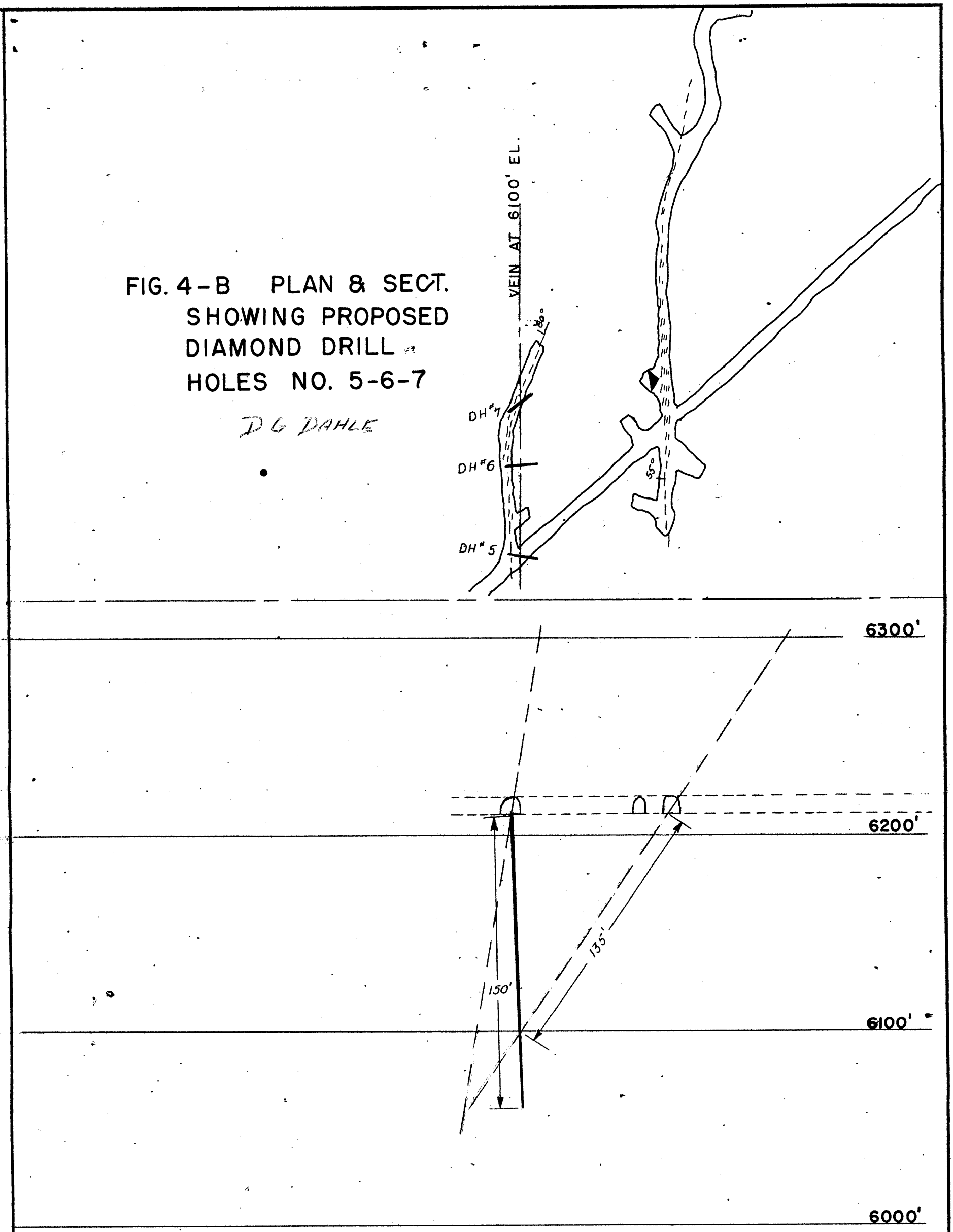
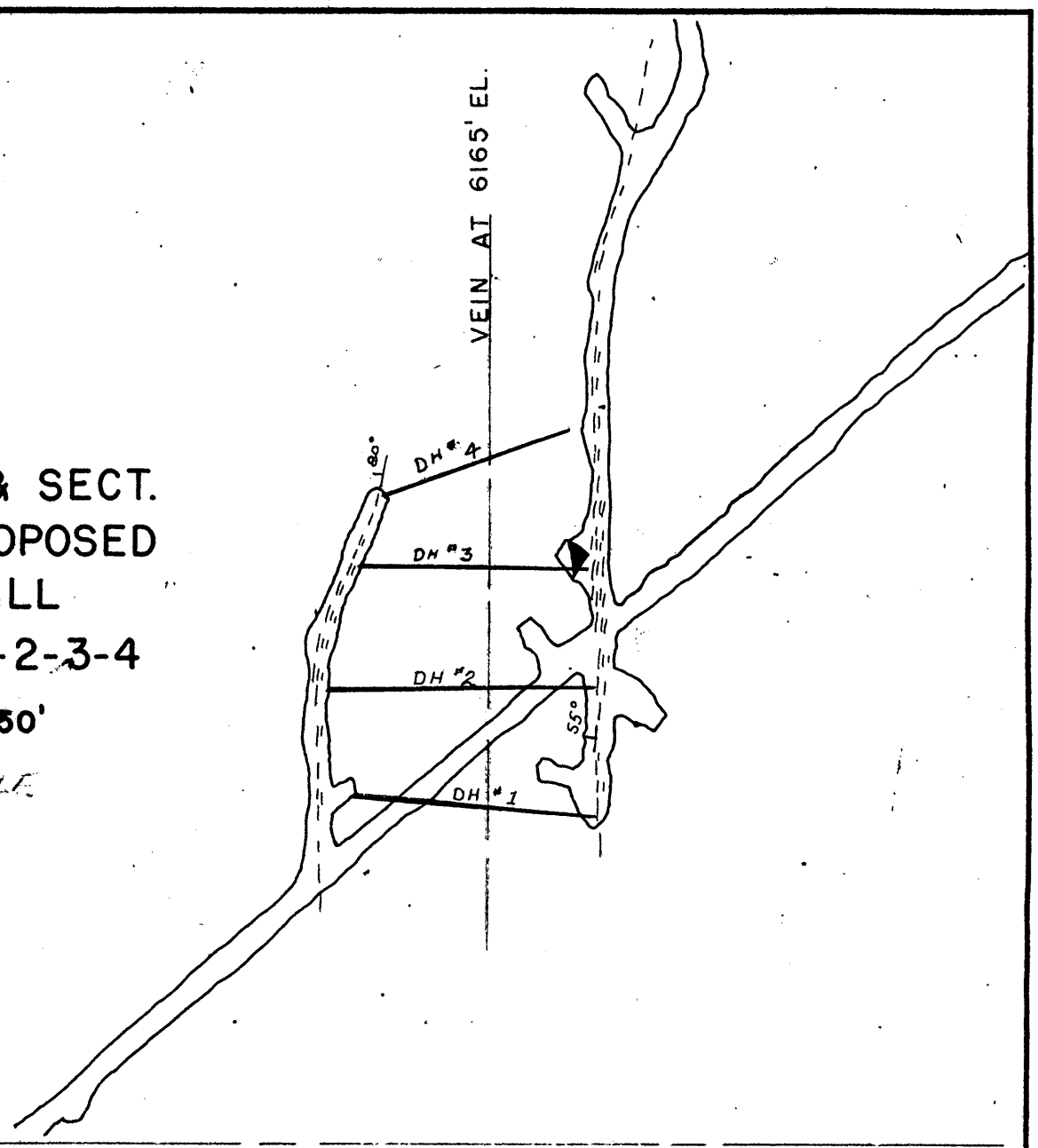


FIG. 4-A PLAN & SECT.
SHOWING PROPOSED
DIAMOND DRILL
HOLES NO. 1-2-3-4

SCALE 1" = 50'

D G DAHLE



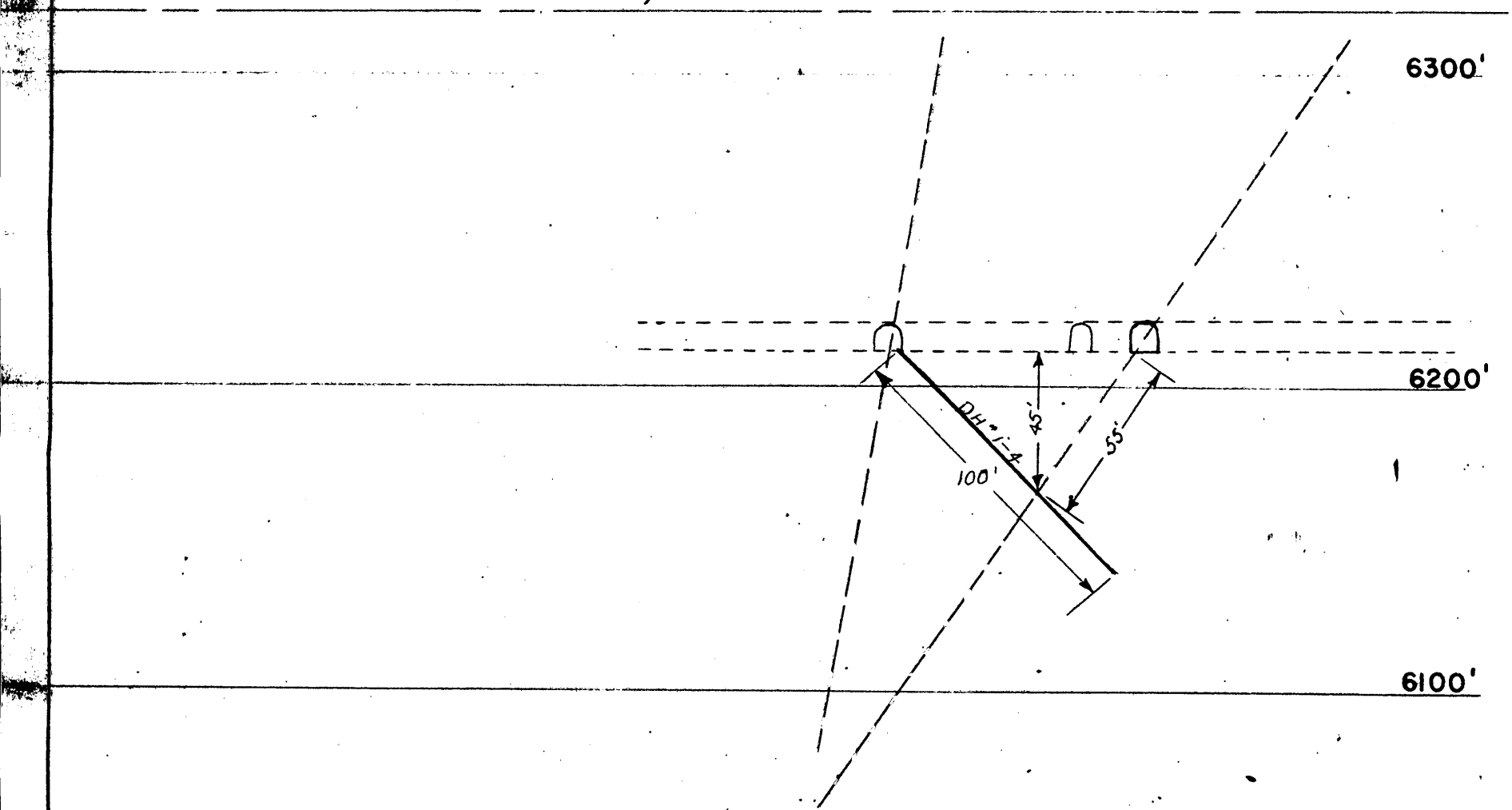
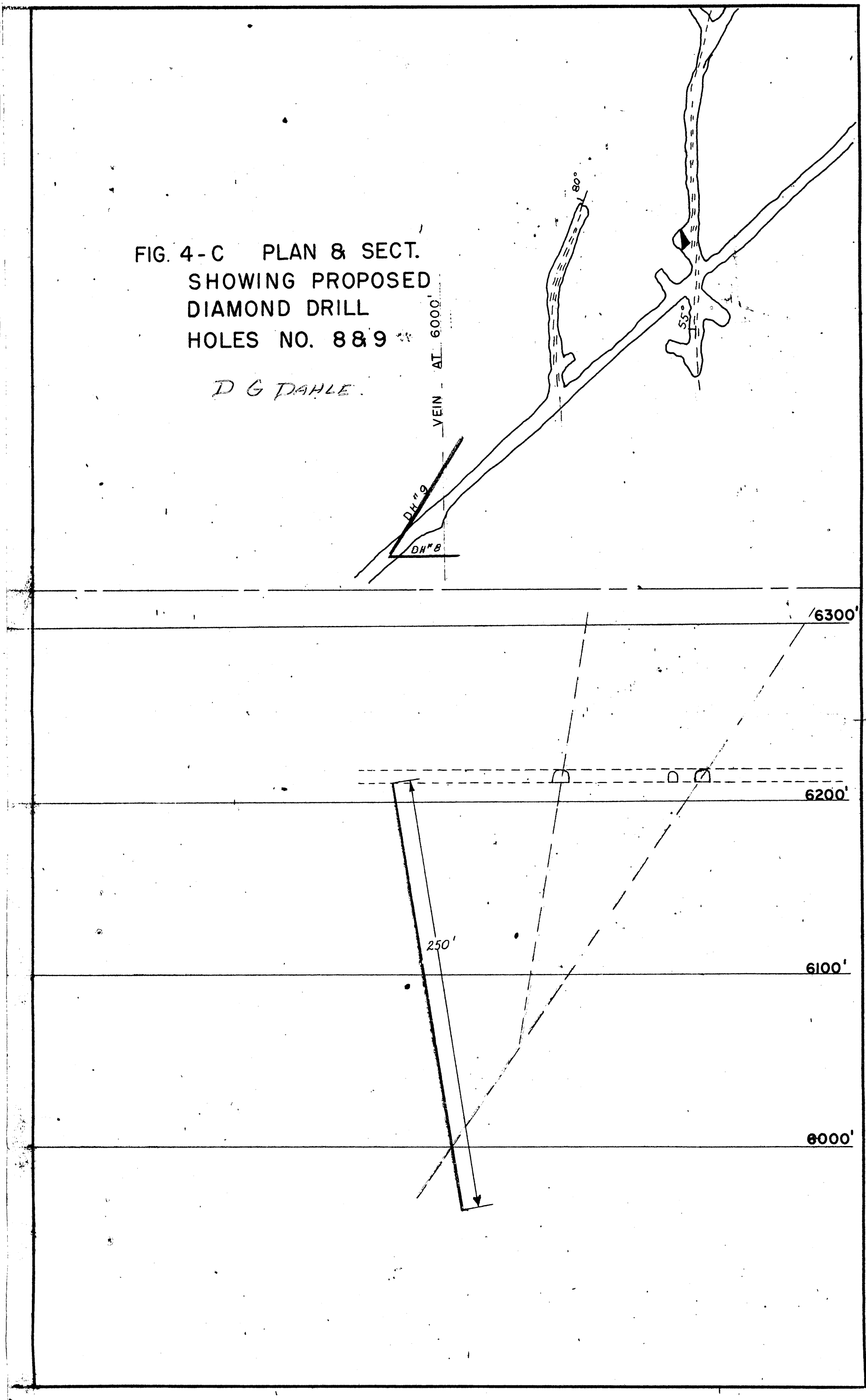


FIG. 4-C PLAN & SECT.
SHOWING PROPOSED
DIAMOND DRILL
HOLES NO. 8 & 9

D G DAHLE.



(5)

Box 1
Arco, Idaho
Dec. 1[illegible], 1[illegible]

Defense Minerals Exploration Administration
U. S. Geological Survey
South 157 Howard Street
Spokane 4, Washington

Atten: Mr. [illegible]

Dear Sir:

When I appealed to DMEA for assistance on the Rattlesnake Copper Mine, two documents were included with the application as supporting evidence. Their return was requested, but they have never been received. I think they were marked, but in case they are not, one is the reproduced copy of the recent last chance prospectus, and the other a copy of a letter written by Newman. The return of these documents will be appreciated.

Also, I am aware that the assays on the samples we took from the property were very poor, and that they are probably primarily reason for DMEA not being able to justify participation, but nevertheless I should like what results you can send me of the matter. When I am able to break some rock and expose fresh, unleached ground I should like to be able to show what thirty years of leaching can do under the conditions existing out there. There is still considerable interest in the property and something may get going out there yet.

They say "We live and learn", but "Some of us just live". One thing I have learned is that it's getting harder and tougher to start out from scratch in mining, especially without a high-grade orebody.

We regret that we were unable to be of more help to you

Yours very truly,

Donald G. Dalle

Thank you again for your interest in our Dalle [illegible] bringing your property to our attention.

Sincerely yours,

Administrator

cc: Mr. [illegible], USGS
Mr. [illegible], USGS
[illegible] Dist. (2)

DMEA-4193.

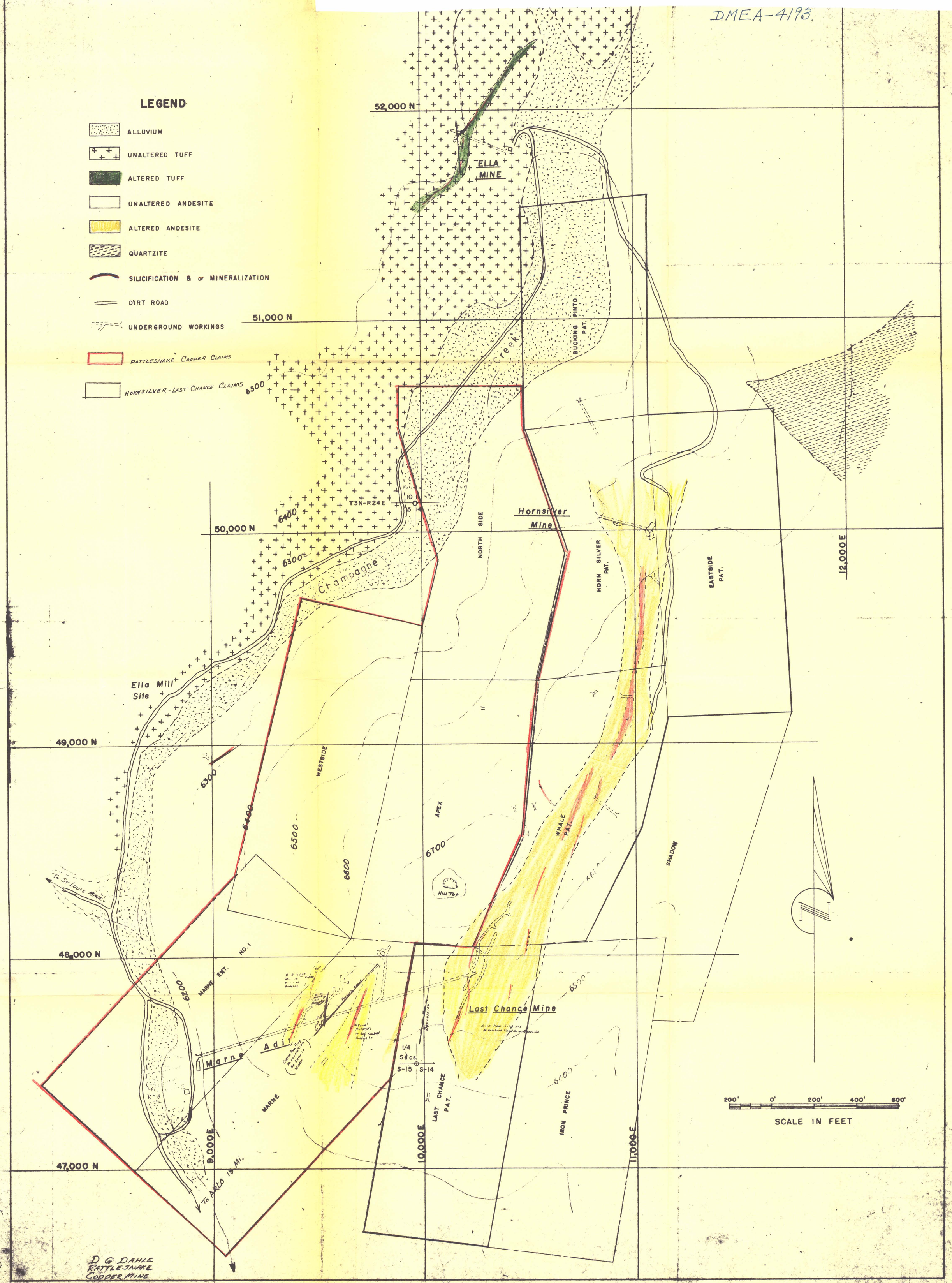
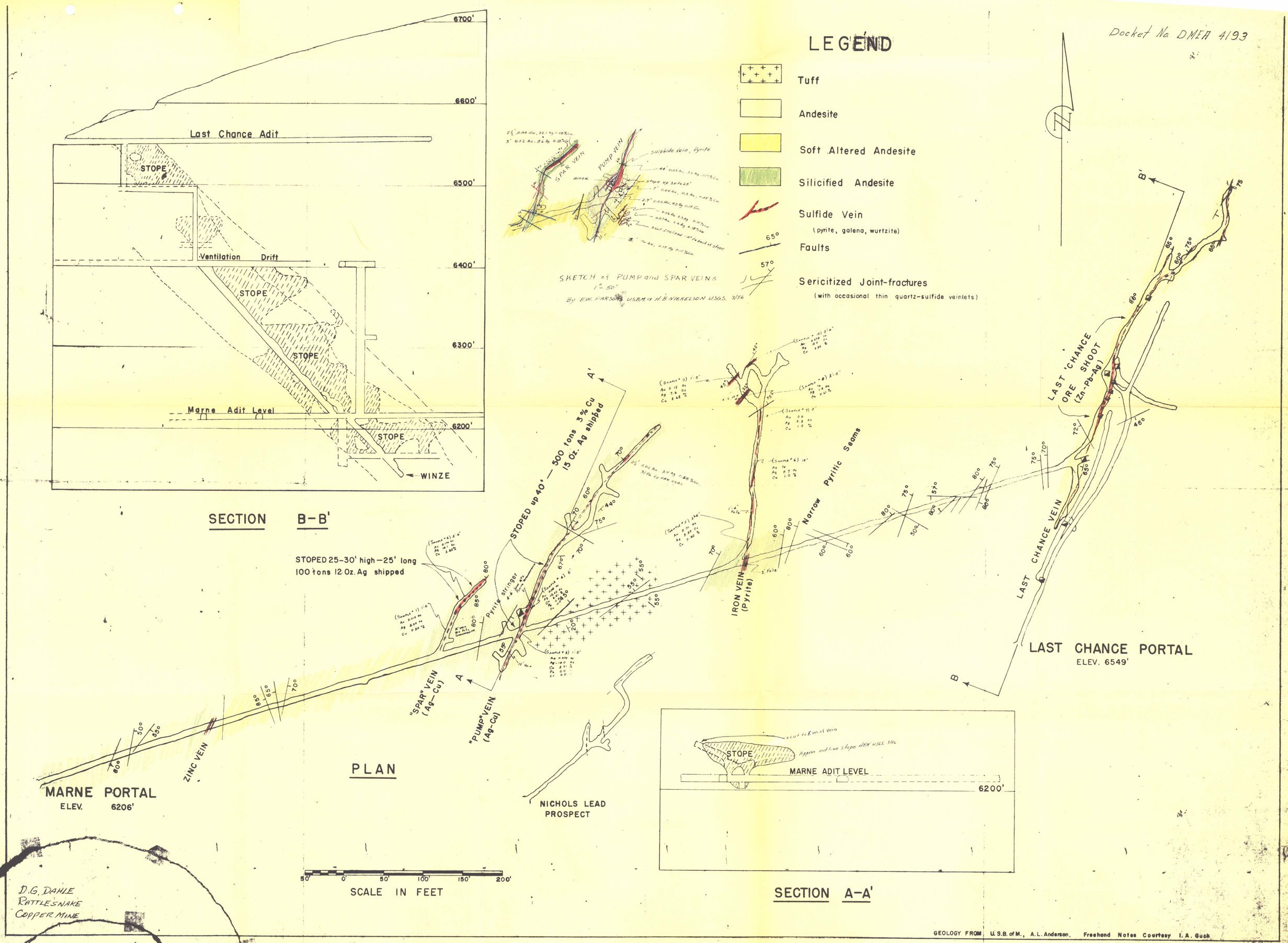


FIG. 1 — PLAN SHOWING CLAIMS, SURFACE GEOLOGY, & WORKINGS — Last Chance, Horn Silver & Ella Mines

Docket No. DMEA 4193



GEOLOGY FROM U.S.B. of M., A.L. Anderson. Freehand Notes Courtesy I.A. Guck

FIG. 2, PLAN-SECTIONS-GEOLOGY, MARNE ADIT-LAST CHANCE

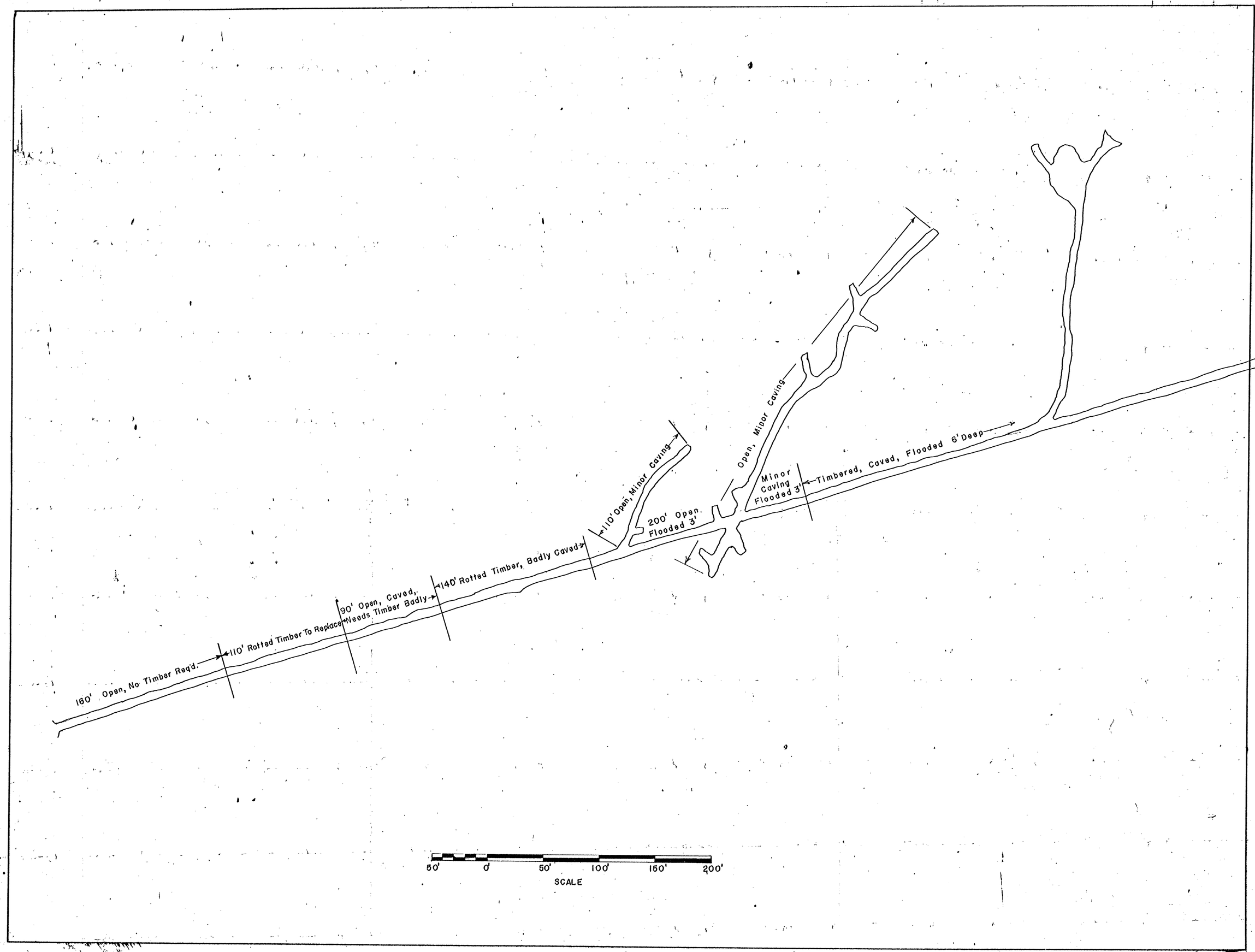


FIG. 3, SHOWING CONDITION OF MARNE ADIT

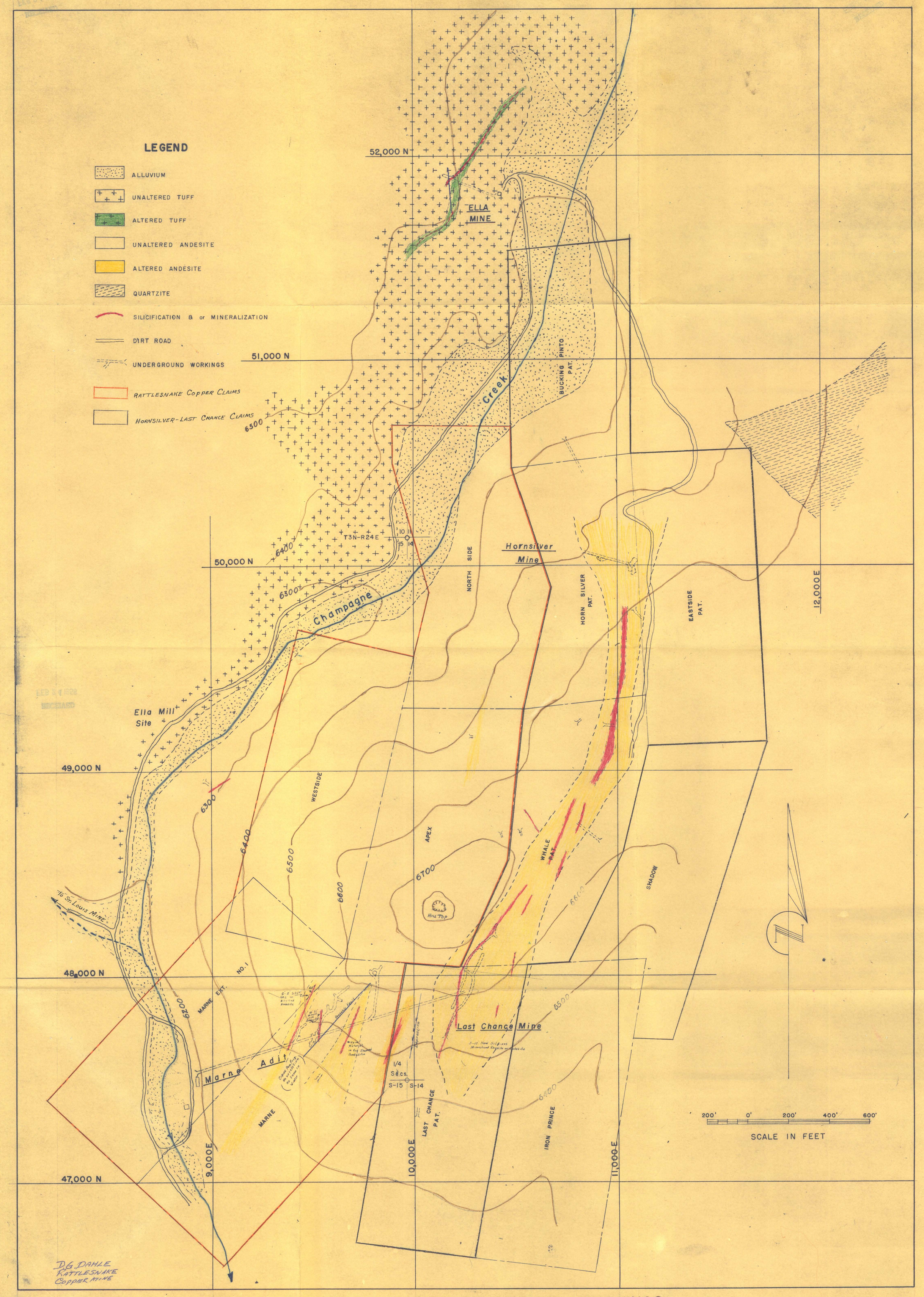


FIG. 1 — PLAN SHOWING CLAIMS, SURFACE GEOLOGY, & WORKINGS — Last Chance, Horn Silver & Ella Mines

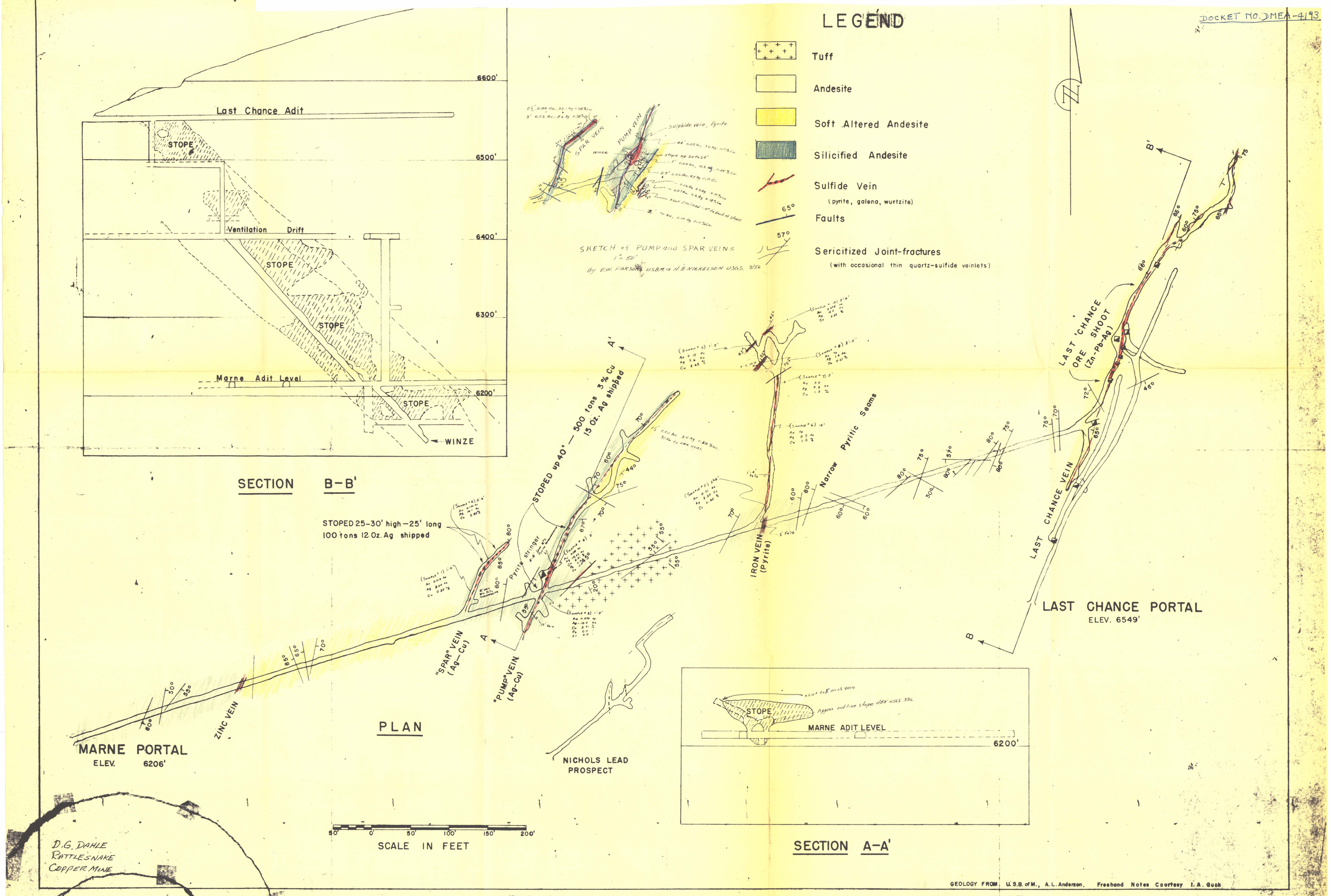


FIG. 2, PLAN-SECTIONS-GEOLOGY, MARNE ADIT-LAST CHANCE

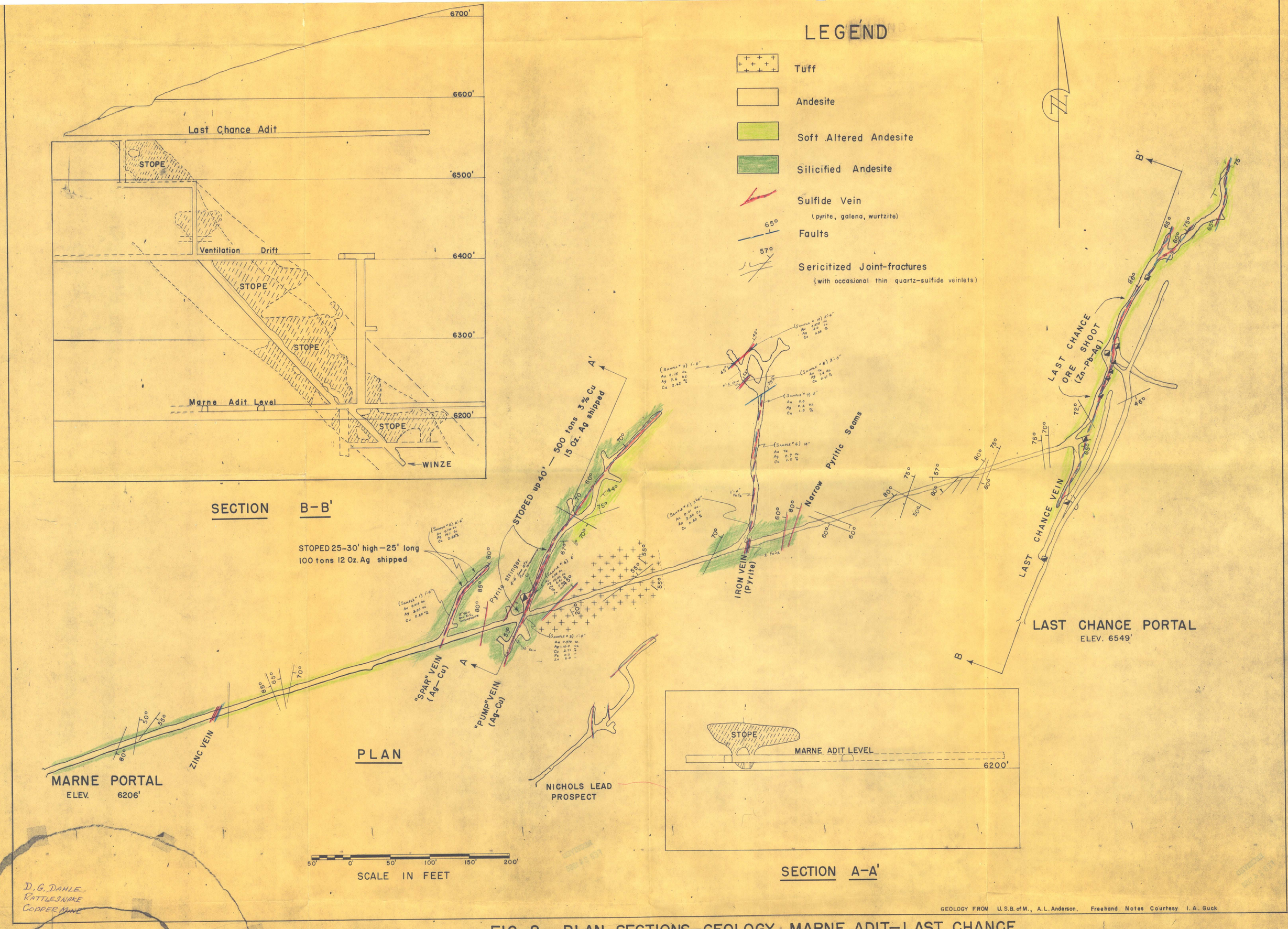


FIG. 2, PLAN-SECTIONS-GEOLOGY, MARNE ADIT-LAST CHANCE