DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3594

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

Exploration Assistance

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Cys to USBM & USGS

Routing Slip

To:	700	Date	12/6/54
To:	Oper Com	Date	3-21-55
To:	Oper. Com.	Date	4-13-55
To:	Oper Com	Date	4-
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

4/25/55 gla

INDIAN CREEK MERCURY MINES, INC.

1711 SMITH TOWER

SEATTLE 4, WASHINGTON

ELLIOTT 5622

RAY R. WHITING, JR.
PRESIDENT

MILTON P. ROUMM
VICE-PRESIDENT

ALBERT M. FRANCO
SECRETARY AND
TREASURER

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 25 1955

April 20, 1955

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

Attention: C. O. Mithendorf, Administrator

Gentlemen:

Re: Docket No. DMEA-3594 (Mercury)
Indian Creek Mercury Prospect
Yakima County, Washington

Your letter of April 15, 1955, denying loan application has been received. Since Mr. Whiting is out of the city, I am writing this letter to advise that it will be called to his attention as promptly as possible.

Mr. Whiting has certain additional information which he believes will be of interest to your office; and, as I understand, this information will be submitted in the near future.

In the meantime, I shall appreciate it if you will hold the matter in abeyance until Mr. Whiting contacts your office.

Sincerely yours,

INDIAN CREEK MERCURY MINES, INC.

Albert M. Franco

ALBERT M. FRANCO, Secretary

AMF:HF

Surname copy

Ellis
Kiilsgaard
Hedges
Selfridge
Johnson

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

APR 15 1955

Mr. Ray R. Whiting, Jr., President
Indian Creek Mercury Mines, Inc.
1711 Smith Tower Building
Seattle 4, Washington

Re: Docket No. DMEA-3594 (Mercury)
Indian Creek Mercury Prospect
Yakima County, Washington

Dear Mr. Whiting:

Your application for aid in an exploration project and other information available to us in Washington concerning your 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, including that obtained under the previous contract (DMEA Contract No. Idm-E259), and also information resulting from an examination of the underground work done with private funds, though noting some mercury mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify additional Government participation. We regret to advise you, under these circumstances, that your application for further exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

EWEllis/gla
4-13-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. H. M. Meyer, Rm. 2623
T. H. Kiilsgaard, Rm. 5224
Code 700
DMEA Field Team, Region I, NW District (2)

F.C.G.

Surname copy

Ellis
Kiilsgaard
Meyer
Selfridge
Hyman

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

Hon. Warren G. Magnuson
Senate Office Building
Washington 25, D. C.

APR 15 1955

Re: Docket No. DMEA-359A (Mercury)
Indian Creek Mercury Mines, Inc.
Indian Creek Mercury Prospect
Yakima County, Washington

My dear Senator Magnuson:

This is in response to your inquiry of March 16, with enclosures of correspondence and maps from Mr. Ray E. Whiting, Jr., President of the captioned Company.

The Division processing subject application has been in constant touch with Mr. Collier of your office. Therefore, I am sure your file on this case will reveal the reason for the delay in arriving at a decision. Upon receipt of the Applicant's request of January 28, action was withheld pending the results of additional sampling and further consideration by our field examiners.

The Defense Minerals Exploration Administration entered into a contract in 1952 to explore the subject property. The work did not result in the discovery of a commercial ore body. Subsequent to that work some 370 feet of adit was driven with private funds. This work explored some of the ground previously drilled with DMEA funds. We now have the benefit of a thorough examination of the rock formations exposed by the previous work.

From a study of all the information we find that the mercury mineralization is rather widely disseminated and there exists no logical target which would justify further exploration at this time. Accordingly, I regret to advise you, under these circumstances we are advising Mr. Whiting that the application is denied.

Pursuant to your request, Mr. Whiting's letters and maps are returned herewith.

EWEllis/gla 4-13-55
cc to: Admr.'s Reading File
Operating Committee
Docket ✓
Messrs. H. M.Meyer, Rm. 2623
T. H. Kiilsgaard, Rm. 5224
Code 700
DMEA Field Team, Reg.I, NW District (2)
Enclosures

Sincerely yours,

C. O. Mittendorf

Administrator

R.E.H.

Attn: Mr. Ellis

United States Senate

March 16, 1955

Department of the Interior
Defense Minerals Administration
RECEIVED
MAR 18 1955

Respectfully referred to

The Honorable C. O. Mittendorf
Administrator
~~Defense Minerals Exploration Adm.~~
Department of Interior

with thanks for such favorable consideration as the communication herewith submitted warrants, and for a report thereon, in duplicate to accompany return of inclosure.

By direction of

Magnuson

WARREN G. MAGNUSON, U. S. S.

March 18-'54

Note: Called Mr. Collier in the Senator's office and told him there would be a delay in answering the above communication until we could get further information from the Field Team. Said that was O.K. — Ellis

Re attachments to Senator Magnuson's referral slip:

Report, by Charles F. Herbert, dated November 10, 1954:
Copy in DMEA docket, submitted with MF-103 application dated November 14, 1954.

2 maps

Ray R. Whiting, Jr., President, Indian Creek Mercury Mines, Inc. letter dated January 28, 1955, to The Hon. Warren G. Magnuson (copy attached)

Ray R. Whiting, Jr., President, Indian Creek Mercury Mines, Inc. dated March 15, 1954:

See copy attached to letter to A. E. Weissenborn under date of March 22, 1955, in docket

Copy not made of Gutberlet Laboratories certification, dated March 8, 1955, Report No. 16233, which was attached to above March 15, 1955, letter of Mr. Whiting.

INDIAN CREEK MERCURY MINES, INC.
1711 Smith Tower
Seattle 4, Washington

January 28, 1955

The Hon. Warren G. Magnuson
Senate Office Building
Washington, D. C.

Dear Senator Magnuson: (See report attached to MF-103)

Herewith enclosed find two copies of report of Charles F. Herbert dated November 10, 1954. Mr. Herbert, who has no connection whatsoever with our company, was requested by the management of our corporation to make this inspection in order to check our own thinking in connection with the development of our mercury prospect. As far as we know, this report is completely accurate and represents a careful and thorough examination and inspection of the property.

Mr. Herbert is well acquainted with mercury prospects and is an experienced mining engineer and mine operator of long standing. He is well known in mining circles throughout the United States and has frequently been consulted by the Government of the United States in such matters and his judgment has always been given great credence. It was for this reason that we employed him to conduct our survey and it was made clear to him that we wanted no favors and wanted his inspection and report to be completely unbiased, objective and factual.

It is highly important that we procure this loan, as we are not a large organization and require these funds with which to carry out this work. We are actually seeking the loan to carry out the program suggested by Mr. Herbert in his report of November 10, 1954. For your information, we are also enclosing certain maps drawn by Mr. Herbert and which we believe will be of assistance in any representations which may be made to the DMEA by your office.

We should also like it borne in mind that we are informed of the critical need of mercury at the present time and are aware that in dealing with any critical mineral, it is important that new and virgin deposits be found within the confines of the United States. It is interesting and important to note that this is a virgin area with indications of similar outcroppings or manifestations within a five or six mile radius.

We have worked this prospect for three and a half yearsat considerable expense to ourselves. The undersigned and hispartner secured a DMEA loan in 1952, a substantial portion of the loan being used for certain diamond drilling.

Your telegram of January 24th refers to "a previous contract under a different name with not much encouragement found." I refer you in this connection to page 3 of Mr. Herbert's report, and particularly to the paragraph which I have marked. You will note that Mr. Herbert states the diamond drilling of 1952 "would appear to provide a little more than negative information." In view of the fact that we are the only known operating mercury prospect, or mine, in the State of Washington, and are operating in a virgin area; and, in addition thereto, have spent three and a half years of hard labor and considerable amount of private

capital, we feel that we are justified in requesting this loan; and because we are pioneering a new area, we may well develop an entirely new mercury district or source of mercury for the United States.

Again, I wish to thank you very much for your kind attention to this matter, and we greatly appreciate all of your efforts in this direction.

Cordially yours,

/s/ Ray R. Whiting, Jr.

President

INDIAN CREEK MERCURY MINES, INC.

DOCKET COPY

Ellis

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

April 12, 1955

Summary or Proposed Project

Object: Denial of application for an exploration project

Docket No.: DMEA-3594

Commodity: Mercury

Applicant: Indian Creek Mercury Mines, Inc.
1711 Smith Tower Building
Seattle 4, Washington

Date of Application: November 16, 1954

Amount of Application: $26,000

Work Proposed: Independent Contracts

250 ft. drifting @ $22.00/ft.	$5,500	
1,500 ft. trenching @ $2.00/ft.	3,000	
add for extra depth	400	
400 ft. test pits @ $2.50/ft.	1,000	
add for extra depth	600	$10,500
Labor, supervision, etc.		4,700
Operating Materials and Supplies		700
Equipment		1,900
Rehabilitation and Repairs		1,000
Construction		1,500
Miscellaneous		5,050
Contingencies		650
		$26,000
Government participation		$19,500

Previous Contract: Under the name of Whiting and Roumm, Docket No. DMEA-2297, a contract in the amount of $18,425.00 was signed February 19, 1952. (Contract No. Idm-E259). The contract provided for 1,200 lineal feet of hand trenching and 1,400 lineal feet of core drilling. The work was completed on November 19, 1952 at a total cost of $14,698.85. While minor mineralization was noted no ore was discovered and consequently no certification declared.

In 1953 Operator did some 370 feet of drifting at its own expense which revealed only scattered small lenses of cinnabar mineralization. This drifting explored the eastern part of the area previously explored under the DMEA contract.

Field Team Report: Transmitted January 17, 1955

The adit driven by the Applicant explored the area previously explored by DMEA diamond-drill holes Nos. 9, 10, 11, and 12. Low-grade cinnabar was found in holes Nos. 9, 10, and 11. Equally sparsely disseminated and low-grade cinnabar is exposed in the adit. The report further states "No promising structural feature is exposed in the adit, along which it can be expected that higher grade concentrations of cinnabar will be found." Field Team recommends that the application be denied.

Commodity Committee Members' Comments:

U. S. Bureau of Mines

Helena M. Meyer, dated February 2, 1955, notes ....."as a result of the applicant's new work a few scattered locations of very low-grade cinnabar-bearing rock is exposed in the drift, but there is no evidence to suggest that additional exploration will be successful in discovering an ore body of mercury." Recommends denial.

U. S. Geological Survey

E. L. Newcomb, dated February 4, 1955, states in part the new 370 foot adit failed to disclose any new evidence which suggests further exploration is warranted. Newcomb also states "Much of the work confirms the negative and unfavorable results obtained in DMEA holes 9, 10, 11, and 12." Recommends denial.

Rare and Miscellaneous Metals Division - Ernest Wm. Ellis, April 12, 1955

By letter dated January 28, 1955, Charles P. Herbert, representing the Applicant, requested that final action on the application be deferred until some additional information on sampling was forwarded to DMEA. Our

letter of February 4, agreed to this. On March 16, Senator Magnuson forwarded some maps and other data including a letter dated March 15, 1955, from Ray R. Whiting, Jr., President of subject Company. A copy of said letter was forwarded to the Field Team on March 22, with the request that the Field Team give consideration to the new sampling results and promptly submit their findings. Under date of April 5, the Field Team submitted their second report which, though noting that the new sampling indicates a somewhat higher mercury content than those submitted with the DMEA examination report, believe...."that the samples do not represent a continuous cinnabar-bearing zone with a grade the assay data suggests; there is no place in the underground workings in which the cinnabar perists in any direction for sufficient distances, even a few feet, to encourage the Applicant to attempt to mine at least one ton of material to test in the small retort he has on his property. Moreover, it can be seen from the irregular spacing and direction on which the samples were taken that they are probably picked samples taken only where cinnabar could be seen."

Accordingly, since the cinnabar mineralization is rather widely disseminated and no logical target which would justify further exploration had been revealed by all the work done to date, this Division recommends that the subject application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

4/8/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 8 1955

April 5, 1955

Air Mail

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

Re: Docket No. DMEA-3594 (mercury)
Indian Creek Mercury Mines, Inc.
Indian Creek mercury deposit
Yakima County, Washington

Dear Mr. Selfridge:

In reply to your letter of February 4, 1954, to Charles F. Herbert with the accompanying footnote to the Field Team, enclosed are copies of an assay report with accompanying map and covering letter dated March 15, 1955, describing the results of the applicant's sampling of the underground workings at the Indian Creek cinnabar prospect. This information was brought to our office recently by Ray R. Whiting, Jr., president of Indian Creek Mercury Mines, Inc.

Mr. Whiting stated that the samples were obtained by moiling channels across the walls at the various locations, resulting in each case in a sample with a volume of about two powder boxes. Mr. Whiting believes that these particular samples, therefore, are probably more representative than were the samples taken during the DMEA examination on December 16, 1954.

These samples do indicate a somewhat higher mercury content at the particular locations than those submitted with the DMEA examination report. We believe, however, and Mr. Whiting concurs in this, that the samples do not represent a continuous cinnabar-bearing zone with a grade the assay data suggests; there is no place in the underground workings in which the cinnabar persists in any direction for sufficient distances, even a few feet, to encourage the applicant to attempt to mine at least one ton of material to test in the small retort he has on his property. Moreover, it can be seen from the irregular spacing and direction on which the samples were taken that they are probably picked samples taken only where cinnabar could be seen.

We believe that the enclosed sampling data only emphasizes the information we have obtained previously; that is, at the Indian Creek cinnabar prospect, cinnabar has been disseminated rather widely, but to date no target has been delineated toward which an exploration project can be directed with justifiable expectation of finding commercial quantities of mercury minerals. We have tried to suggest to Mr. Whiting that more prospecting is needed in order to try to find some target which will justify exploration, and until such a target has been found, no feasible exploration program can be planned. Any underground exploration at the present time would be done completely blind without any specific objective, and we doubt seriously that it would explore effectively the property.

By Field Team, Region I, NW District

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

Wing G. Agnew

Wing G. Agnew, Member
(U. S. Bureau of Mines)

Enclosures 3 (in dupl.)
cc: USBM(2)
Puffett

P. S. Since writing the above, your letter of March 22, 1955, arrived to which a copy of Ray R. Whiting's letter of March 15, 1955, to Senator Magnuson was attached. We believe the above information will answer your letter also.

INDIAN CREEK MERCURY MINES, INC.

SEATTLE 4, WASHINGTON

RAY R. WHITING, JR.
PRESIDENT

LYON F. BOURNE
VICE-PRESIDENT

BERT M. FRANCO
SECRETARY AND
TREASURER

RECEIVED

March 15, 1955

Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3594

Attention: A. E. Weissenborn

Gentlemen:

Enclosed herewith find three copies of Channel Sample report consisting of assays dated March 8, 1955, and map reflecting places from which channel samples were taken. It is our feeling that the enclosed channel samples will prove useful to your office and to DMEA in Washington in the processing of our loan application, and we undertook the liberty to take them for that reason.

The said samples represent considerable labor under adverse conditions and we believe them to be completely accurate and reliable. We are also of the opinion that these channel samples more accurately represent the status of the ore in quantity than any samples previously taken by anyone.

We herewith request that the enclosures be forwarded to DMEA in Washington as rapidly as possible and that same be included in our application as additional information.

Very truly yours,

INDIAN CREEK MERCURY MINES, INC.

RAY R. WHITING, JR., President.

RECEIVED
MAR 17 1955
U.S.G.
SPOKANE, WASH.

Encl. 1

PHONE: ELIOT 4484

GUTBERLET LABORATORIES

ANALYTICAL AND CONSULTING

CHEMISTS · METALLURGISTS

SAMPLERS · INSPECTORS

205 ALASKAN WAY SOUTH SEATTLE 4, WASHINGTON

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 8 1955

March 8, 1955

Indian Creek Mercury Mine,
1711 - Smith Tower,
Seattle, Washington.

Report No. 16233

Gentlemen:

We hereby certify that we have Analyzed 7 samples of

ORE

submitted to us by you March 2, 1955 and have to report as follows:

Sample Marked	Mercury(Hg)	Pounds per Ton
#1(8' wall Sample switch)	0.15%	3.0
#2(5' floor sample switch)	0.10%	2.0
#3(8' wall sample north)	0.20%	4.0
#4(12' back sample over shaft-north)	0.15%	3.0
#5(4' sample colarshaft)	0.25%	5.0
#6(face sample south 15' from workings of 10/23/54)	0.10%	2.0
#7(face sample 20' from workingsof 10/23/54)	0.15%	3.0

Respectfully submitted,

E. L. Gutberlet

GUTBERLET LABORATORIES

RECEIVED
APR 8 1955

xxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

April 5, 1955

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

Air Mail

Re: Docket No. DMEA-3594 (mercury)
Indian Creek Mercury Mines, Inc.
Indian Creek mercury deposit
Yakima County, Washington

Dear Mr. Selfridge:

In reply to your letter of February 4, 1954, to Charles F. Herbert with the accompanying footnote to the Field Team, enclosed are copies of an assay report with accompanying map and covering letter dated March 15, 1955, describing the results of the applicant's sampling of the underground workings at the Indian Creek cinnabar prospect. This information was brought to our office recently by Ray R. Whiting, Jr., president of Indian Creek Mercury Mines, Inc.

Mr. Whiting stated that the samples were obtained by moiling channels across the walls at the various locations, resulting in each case in a sample with a volume of about two powder boxes. Mr. Whiting believes that these particular samples, therefore, are probably more representative than were the samples taken during the DMEA examination on December 16, 1954.

These samples do indicate a somewhat higher mercury content at the particular locations than those submitted with the DMEA examination report. We believe, however, and Mr. Whiting concurs in this, that the samples do not represent a continuous cinnabar-bearing zone with a grade the assay data suggests; there is no place in the underground workings in which the cinnabar persists in any direction for sufficient distances, even a few feet, to encourage the applicant to attempt to mine at least one ton of material to test in the small retort he has on his property. Moreover, it can be seen from the irregular spacing and direction on which the samples were taken that they are probably picked samples taken only where cinnabar could be seen.

We believe that the enclosed sampling data only emphasizes the information we have obtained previously; that is, at the Indian Creek cinnabar prospect, cinnabar has been disseminated rather widely, but to date no target has been delineated toward which an exploration project can be directed with justifiable expectation of finding commercial quantities of mercury minerals. We have tried to suggest to Mr. Whiting that more prospecting is needed in order to try to find some target which will justify exploration, and until such a target has been found, no feasible exploration program can be planned. Any underground exploration at the present time would be done completely blind without any specific objective, and we doubt seriously that it would explore effectively the property.

By Field Team, Region 1, N. District

A. S. Weissenborn, Exec. Officer
(U. S. Geological Survey)

Wing G. Agnew, Member
(U. S. Bureau of Mines)

Enclosures 3 (in dupl.)
cc: USBM(2)
Puffett

P. S. Since writing the above, your letter of March 22, 1955, arrived to which a copy of Ray R. Whiting's letter of March 15, 1955, to Senator Magnuson was attached. We believe the above information will answer your letter also.

INDIAN CREEK MERCURY MINES INC.
1771 SMITH TOWER
SEATTLE 4, WASHINGTON
ELliOTT 5438

RAY R. WHITING, JR.
PRESIDENT

MILTON R. [illegible]
VICE-PRESIDENT

ALBERT M. FRANCO
SECRETARY AND
TREASURER

March 15, 1955

Defense Minerals Exploration Administration
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3594

Attention: A. E. Weissenborn

Gentlemen:

Enclosed herewith find three copies of Channel Sample report consisting of assays dated March 8, 1955, and map reflecting places from which channel samples were taken. It is our feeling that the enclosed channel samples will prove useful to your office and to DMEA in Washington in the processing of our loan application, and we undertook the liberty to take them for that reason.

The said samples represent considerable labor under adverse conditions and we believe them to be completely accurate and reliable. We are also of the opinion that these channel samples more accurately represent the status of the ore in quantity than any samples previously taken by anyone.

We herewith request that the enclosures be forwarded to DMEA in Washington as rapidly as possible and that same be included in our application as additional information.

Very truly yours,

INDIAN CREEK MERCURY MINES, INC.

RAY R. WHITING, JR., President.

RECEIVED
MAR 17 1955
U.S.G.S.
SPOKANE, WASH.

PHONE: ELIOT 4484

GUTBERLET LABORATORIES

ANALYTICAL AND CONSULTING

CHEMISTS · METALLURGISTS

SAMPLERS · INSPECTORS

205 ALASKAN WAY SOUTH SEATTLE 4, WASHINGTON

March 8, 1955

Indian Creek Mercury Mine,
1711 - Smith Tower,
Seattle, Washington.

Report No. 16233

Gentlemen:

We hereby certify that we have Analyzed 7 samples of

ORE

submitted to us by you March 2, 1955 and have to report as follows:

Sample Marked	Mercury(Hg)	Pounds per Ton
#1(8' wall Sample switch)	0.15%	3.0
#2(5' floor sample switch)	0.10%	2.0
#3(8' wall sample north)	0.20%	4.0
#4(12' back sample over shaft-north)	0.15%	3.0
#5(4' sample colarshaft)	0.25%	5.0
#6(face sample south 15' from workings of 10/23/54)	0.10%	2.0
#7(face sample 20' from workingsof 10/23/54)	0.15%	3.0

Respectfully submitted,

E. L. Gutberlet

GUTBERLET LABORATORIES

Surname copy

Ellis
Selfridge
Hedges
Matthews

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

MAR 22 1955

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

Re: Docket No. DMEA-3594 (Mercury)
Indian Creek Mercury Mines, Inc.
Indian Creek Mercury Prospect
Yakima County, Washington

Dear Mr. Weissenborn:

We are enclosing copies of a letter dated March 15 to Senator Magnuson pertaining to the above-docketed application.

You will note that Applicant has done some additional sampling as suggested in the Deputy Administrator's letter of February 4 to Mr. Charles F. Herbert. Copies of said letter were forwarded to your office.

With the letter was a map showing the new sampling spots and an assay report for the seven samples recently procured. As we have to return these papers to the Senator, please see that Applicant forwards duplicates (three copies) to this office.

Kindly give this new information serious consideration and forward your recommendation as promptly as possible. As you know, we are withholding final action on this application pending the outcome of the new sampling.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (243)

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines (242)

Thor H. Kiilsgaard
Member, Geological Survey (245)

EWEllis/gla
3-18-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. H. M. Meyer, Rm. 2623
T. H. Kiilsgaard, Rm. 5224
Code 700

R.L.

INDIAN CREEK MERCURY MINES, INC.
1711 Smith Tower
Seattle 4, Washington

March 15, 1955

AIR MAIL, SPECIAL DELIVERY

The Hon. Warren G.Magnuson
Senate Office Building
Washington 25, D. C.

My dear Senator Magnuson:

We have completed the channel samples suggested by Mr. Herbert in his letter to Mr. Johnson at DMEA and are submitting three copies to the head of the DMEA field team in Spokane, Washington.

We herewith enclose one copy for your inspection and use by you in the event you find it convenient to discuss the matter furthere with Mr. Johnson. This report consists of assays of seven samples and a map showing the places from which the samples were taken, and were taken under my supervision and I will vouch for their complete correctness and accuracy. It is my opinion that these samples clearly manifest the presence of ore which justifies further exploration.

There is constantly brought to my attention the fact that our country is in critical need of mercury. It is also of interest to note that our company is the only group undertaking the exploration and development of mercury propertiesin the State of Washington. Only yesterday we received the annual publication of the State Department of Conservation which verifies that assertion. Many thousands of dollars of private capital from a relatively few people in Seattle have kept this property in continuous operation for some two and a half years and we do feel that we are entitled to the benefit of any doubts that may arise.

Thank you again for your courtesy and kind attention.

Very truly yours,

INDIAN CREEK MERCURY MINES, INC.

/s/ Ray R. Whiting, Jr.

RAY R. WHITING, JR., President

c
o
p
y

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

Surname copy

FEB 4 1955

Mr. Charles F. Herbert
1013 Smith Tower
Seattle 4, Washington

Re: Docket No. DMEA-3594 (Mercury)
Indian Creek Mercury Mines, Inc.
Indian Creek Mercury Prospect
Yakima County, Washington

Dear Chuck:

This will acknowledge receipt of your letter dated January 28, in reference to the above-docketed application.

I note that you have again recently examined the new work done at the subject property and, furthermore, you have suggested that the Applicant do some additional channel sampling and forward the results of said sampling to the DMEA Field Team. You also request that final action on the application be deferred until the results of said sampling are received. Accordingly, we will be glad to abide by your request and no action will be taken until the information is received. It is suggested a sketch showing where the samples were taken be also submitted.

Your comments on Livangood interested me. It will be a pleasure to see you again sometime and exchange experiences.

With best regards,

Sincerely yours,

Deputy Administrator

EWEllis/gla
2-3-55
cc to: Admr.'s Reading File
Docket ✓
Messrs. A. Renick, Rm. 3624
T. H. Kiilsgaard, Rm. 5224
Code 700
F. E. Johnson
DMEA Field Team, Region I, Northwest District (2)

NOTE TO THE FIELD TEAM: Be on the lookout for the additional sampling results and forward your comments to us, together with copies of the assay certificates.

R.C.S.

2/8/55 gla

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 7 1955

February 4, 1955

Re: DMEA-3594
Indian Creek Mines, Inc.
(Denny Ray Claim)
Yakima Co., Wash.
$26,000 - Mercury

Memorandum

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

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

Subject: Concurrence with Field Team recommendation for denial

The operator proposed to further explore the Denny Ray claim with 250 feet of drifting, 1500 feet of trenching, and 400 feet of test pitting.

The Field Team has recommended the proposed work be denied.

The Denny Ray property was explored by an earlier DMEA contract (DMEA-2297). A total of 1200 feet of trenching and 1479 feet of diamond drilling was completed. This work did not find any favorable evidence of significant ore bodies on the property and certification of a discovery was not made.

Although the operator has driven a new 370 foot adit since the time of completion of the DMEA contract, this work failed to disclose any new evidence which suggests further exploration is warranted. Much of the work confirms the negative and unfavorable results obtained in DMEA holes 9, 10, 11 and 12.

I concur with the Field Team's conclusions and recommend this new application be denied.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

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

February 4, 1955

Re: DMEA-3594
Indian Creek Mines, Inc.
(Danny Bay Claim)
Yakima Co., Wash.
$25,000 - Mercury

Memorandum

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

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

Subject: Concurrence with Field Team recommendation for denial

The operator proposed to further explore the Danny Bay claim with 250 feet of drifting, 1,200 feet of trenching, and 400 feet of test pitting.

The Field Team has recommended the proposed work be denied.

The Danny Bay property was explored by an earlier DMEA contract (DMEA-2297). A total of 1200 feet of trenching and 1479 feet of diamond drilling was completed. This work did not find any favorable evidence of significant ore bodies on the property and certification of a discovery was not made.

Although the operator has driven a new 370 foot adit since the time of completion of the DMEA contract, this work failed to disclose any new evidence which suggests further exploration is warranted. Much of the work confirms the negative and unfavorable results obtained in DMEA holes 9, 10, 11 and 12.

I concur with the Field Team's conclusions and recommend this new application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-2/4/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 2623 Interior

IN REPLY REFER TO:

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

February 4, 1955

Re: DMEA-3594
Indian Creek Mines, Inc.
(Dunny Bay Claim)
Yakima Co., Wash.
$25,000 - Mercury

Memorandum

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

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

Subject: Concurrence with Field Team recommendation for denial

The operator proposed to further explore the Dunny Bay claim with 250 feet of drifting, 1,500 feet of trenching, and 400 feet of test pitting.

The Field Team has recommended the proposed work be denied.

The Dunny Bay property was explored by an earlier DMEA contract (DMEA-2297). A total of 1200 feet of trenching and 1479 feet of diamond drilling was completed. This work did not find any favorable evidence of significant ore bodies on the property and certification of a discovery was not made.

Although the operator has driven a new 370 foot adit since the time of completion of the DMEA contract, this work failed to disclose any new evidence which suggests further exploration is warranted. Much of the work confirms the negative and unfavorable results obtained in DMEA holes 9, 10, 11 and 12.

I concur with the Field Team's conclusions and recommend this new application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-2/4/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
N. M. Meyer, 2623 Interior

IN REPLY REFER TO:

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

February 4, 1955

Re: DMEA-3594
Indian Creek Mines, Inc.
(Danny Bay Claim)
Yakima Co., Wash.
$26,000 - Mercury

Memorandum

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

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

Subject: Concurrence with Field Team recommendation for denial

The operator proposed to further explore the Danny Bay claim with 250 feet of drifting, 1500 feet of trenching, and 400 feet of test pitting.

The Field Team has recommended the proposed work be denied.

The Danny Bay property was explored by an earlier DMEA contract (DMEA-2897). A total of 1200 feet of trenching and 1479 feet of diamond drilling was completed. This work did not find any favorable evidence of significant ore bodies on the property and certification of a discovery was not made.

Although the operator has driven a new 370 foot adit since the time of completion of the DMEA contract, this work failed to disclose any new evidence which suggests further exploration is warranted. Much of the work confirms the negative and unfavorable results obtained in DMEA holes 9, 10, 11 and 12.

I concur with the Field Team's conclusions and recommend this new application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-2/4/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 2623 Interior

2/4/54 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1955

February 2, 1955

Memorandum

To: E. W. Ellis

From: Helena M. Meyer, Bureau of Mines

Subject: DMEA Docket 3594, Indian Creek Mercury Mines, Inc. (Mercury) $26,000

This property consists of unpatented claims explored in 1952 under Contract Idm-E 259, Docket No. DMEA - 2297, and an additional 21 claims assumed to be contiguous. In the final report for Idm-E 259, the Field Team recommended that no Certification of Discovery or Development be declared and that there be no further Government participation on the basis of work done to the date of the report.

The underground work done subsequently by the applicant, according to the Field Team, found no more favorable evidence of mercury than was found by DMEA work. The samples analyzed for the applicant were selected and they carried up to several times the best assay (3.4 pounds of mercury per ton) obtained by the Field Team.

According to the Field Team, as a result of the applicant's new work a few scattered locations of very low-grade cinnabar-bearing rock is exposed in the drift, but there is no evidence to suggest that additional exploration will be successful in discovering an ore body of mercury.

On the basis of the foregoing, I concur with the Field Team recommendation that the application be denied.

Helena M. Meyer

Helena M. Meyer

Copy to: Division of Minerals
Branch of Base Metals
H. M. Meyer
F i l e s

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 2 1955

February 2, 1955

Memorandum

To: E. W. Ellis

From: Helena M. Meyer, Bureau of Mines

Subject: DMEA Docket 3594, Indian Creek Mercury Mines, Inc. (Mercury) $26,000

This property consists of unpatented claims explored in 1952 under Contract Idm-E 259, Docket No. DMEA - 2297, and an additional 21 claims assumed to be contiguous. In the final report for Idm-E 259, the Field Team recommended that no Certification of Discovery or Development be declared and that there be no further Government participation on the basis of work done to the date of the report.

The underground work done subsequently by the applicant, according to the Field Team, found no more favorable evidence of mercury than was found by DMEA work. The samples analyzed for the applicant were selected and they carried up to several times the best assay (3.4 pounds of mercury per ton) obtained by the Field Team.

According to the Field Team, as a result of the applicant's new work a few scattered locations of very low-grade cinnabar-bearing rock is exposed in the drift, but there is no evidence to suggest that additional exploration will be successful in discovering an ore body of mercury.

On the basis of the foregoing, I concur with the Field Team recommendation that the application be denied.

Helena M. Meyer

Helena M. Meyer

HMMeyer/vr

Copy to: Division of Minerals
Branch of Base Metals
H. M. Meyer
F i l e s

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 2 1955

February 2, 1955

Memorandum

To: E. W. Ellis

From: Helena M. Meyer, Bureau of Mines

Subject: DMEA Docket 3594, Indian Creek Mercury Mines, Inc. (Mercury) $26,000

This property consists of unpatented claims explored in 1952 under Contract Idm-E 259, Docket No. DMEA - 2297, and an additional 21 claims assumed to be contiguous. In the final report for Idm-E 259, the Field Team recommended that no Certification of Discovery or Development be declared and that there be no further Government participation on the basis of work done to the date of the report.

The underground work done subsequently by the applicant, according to the Field Team, found no more favorable evidence of mercury than was found by DMEA work. The samples analyzed for the applicant were selected and they carried up to several times the best assay (3.4 pounds of mercury per ton) obtained by the Field Team.

According to the Field Team, as a result of the applicant's new work a few scattered locations of very low-grade cinnabar-bearing rock is exposed in the drift, but there is no evidence to suggest that additional exploration will be successful in discovering an ore body of mercury.

On the basis of the foregoing, I concur with the Field Team recommendation that the application be denied.

Helena M. Meyer

Helena M. Meyer

HMMeyer/vr
Copy to: Division of Minerals
Branch of Base Metals
H. M Meyer
F i l e s

2/2/55 gla

ALASKA COPPER CORPORATION

1013 SMITH TOWER
SEATTLE 4, WASHINGTON
MUTUAL 1487

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 31 1955

Charles F. Herbert
1013 Smith Tower
Seattle 4, Wash.
January 28, 1955

DMEA-3594

Mr. Frank E. Johnson
Acting Deputy Administrator
Defense Minerals Exploration Administration
Department of the Interior
Washington 25, D.C.

Dear Frank:

The Indian Creek Mercury Mines, Inc. of this city has applied for a DMEA loan. Although I seldom do any outside work I made an examination of their property, from which it seemed to me that the more recent work was encouraging enough to warrant further development, even though work under an earlier loan was not productive.

The men who head the company are distrubed by what they consider a brief examination by the field engineer for the DMEA and from subsequent information that leads them to believe that the application may be turned down.

I have suggested that the workings be carefully channel sampled and that the results be forwarded to the DMEA as additional information. Until this additional information is made available, the company would like to see final action on the application deferred.

I have no interest in this venture or in any other venture in which the company or its members are interested.

I certainly appreciated Mr. Mittendorf's rapid action after my call to him about the possibility of getting a price contract on tin. We were seriously considering the Zenda project but the price uncertainty has us scared.

In the meantime we have done what appears to be even worse. We took up the RFC sick cat, Livengood, on a lease and are planning on operating there next summer. The dredge was sold and we will use a large dragline.

I certainly hope that we can somehow or other get together again some time.

With best regards,

Chuck

Charles F. Herbert

1/31/55 gla

DEPARTMENT OF THE INTERIOR
Bureau of Mines Minerals
RECEIVED
JAN 26 1955

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

5

January 17, 1954

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

Re: Docket No. 3594 (mercury)
Indian Creek Mercury Mines, Inc.
Yakima County, Washington

Dear Mr. Selfridge:

Enclosed are the original and three copies of an application examination report prepared by Willard P. Puffett, geologist, Geological Survey, on the Indian Creek Mercury Mines, Inc., property in Yakima County, Washington.

This property was explored under DMEA Contract No. Idm-E259 (Docket No. DMEA-2297) during the summer of 1952, when the property was owned by the partnership of Whiting and Roumm. No Certification of Discovery or Development was declared as a result of the contract work.

Since the completion of the DMEA contract, the Indian Creek Mercury Mines, Inc., corporation was formed and the corporation financed additional exploration. The new work included the driving of a drift, 370 feet long, which explored the eastern part of the area already explored by trenching and diamond drilling under the DMEA contract.

The enclosed report with map describes this new work. A few scattered locations of very low-grade cinnabar-bearing rock is exposed in the drift, but no evidence has been found to suggest that additional exploration will be successful in discovering an ore body of mercury.

The Field Team concurs with the recommendation in the report that the application be denied.

By Field Team, Region I

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

Reviewed by DMEA OPERATING COMMITTEE
1-28-55
(date)

John S. Vhay / VDH
John S. Vhay, Acting Member
U. S. Geological Survey

cc: USBM (2)
Puffett

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

January 14, 1955

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3594 (mercury), Application examination, Indian Creek Mercury Mines, Inc., Yakima County, Washington

APPLICANT

Indian Creek Mercury Mines, Inc.
1711 Smith Tower Building
Seattle, Washington

Reviewed by
DMEA OPERATING COMMITTEE
1-28-55
(date)

INTRODUCTION

Indian Creek Cinnabar Mines, Inc., was organized in February 24, 1953. The president and vice-president of this corporation are Ray R. Whiting, Jr., and Milton P. Roumm, who, as former partners, obtained a Defense Minerals Exploration Administration contract to explore the Indian Creek property during the summer of 1952 (Docket No. DMEA-2297, Contract No. Idm-E259). The contract work, which included hand trenching and diamond drilling, failed to find any minable quantities of cinnabar.

Subsequent to the completion of the DMEA contract, the corporation was organized, and exploration of the property was continued. This work included driving an adit to explore indications of mercury ore near the eastern end of the Denny Ray claim. Apparently the exposures in this adit were sufficiently good to encourage the corporation to apply for DMEA assistance in continuing the underground exploration.

SUMMARY

The adit driven by the applicant has explored the area previously explored by DMEA Diamond Drill Holes No. 9, 10, 11, and 12. Sparsely disseminated and very low-grade cinnabar was found in Holes No. 9, 10, and 11. Equally sparsely disseminated and low-grade cinnabar is exposed in the adit. No promising structural feature is exposed in the adit, along which it can be expected that higher grade concentrations of cinnabar will be found.

RECOMMENDATION

It is recommended that the application be denied.

EXAMINATION

The adit on the applicant's property was examined on Thursday, December 16, 1954, by Willard P. Puffett, geologist, Geological Survey. Mr. Ray R. Whiting, Jr., president of Indian Creek Cinnabar Mines, Inc., accompanied the DMEA examiner. Eight hours were spent at the property during the examination. Snow nearly 20 inches deep obscured the surface near the portal of the adit.

PROPERTY

The applicant's property consists of 24 unpatented claims in the Snoqualmie National Forest, R. 12 E., T. 14 N., Yakima County, Washington. No map of the claims was submitted with the application. There were only three claims included under the former DMEA project. These included the Denny Ray, Indian Creek, and Roumm Cinnabar claims. It is assumed that the 21 additional claims are contiguous with the original three.

The property can be reached by an unimproved road that leads north, paralleling Indian Creek, from near the west end of the Tieton reservoir. The junction between the south end of this road and State Highway No. 5 is about 45 miles west of Yakima, Washington.

Surface facilities include three or four tents and a partially completed log cabin. A 2-ton rotary retort and a 105-c.f.m. compressor are near the portal of the adit. A small open-sided shed has been built over the compressor.

The original discovery work included driving a short adit into the north bank of a small tributary of Indian Creek, nearly in the center of the Denny Ray claim. The new adit, some 350 feet upstream to the east from the short adit, was started in the north bank of the creek but has wandered considerably on bearing crossing under the creek and then turning north, again going underneath the creek. Total length of the adit is 370 feet, and the north face is about 75 feet north of the creek. The outline of the adit is shown on the accompanying plan map.

COMPETENCY OF APPLICANT

Mr. Ray R. Whiting, Jr., president of Indian Creek Mercury Mines, Inc., has been prospecting for mercury for a number of years. He was one of the original discoverers of the Horse Heaven mercury mine in Jefferson County, Oregon. Mr. Whiting has supervised all the exploration work at the Indian Creek property.

The recent exploration work at the Indian Creek property has been financed through the sale of stock in the corporation.

GEOLOGY

The applicant's property is underlain by a complex of altered volcanic and sedimentary rocks, all probably part of the Lower Keechelus formation of Oligocene age. Three main types of rock are exposed: green, well-foliated gneissic metasediments; light buff, medium-grained, massive silica-carbonate rock, and massive, light-green to bluish (somewhat talcy) rock which may represent an altered phase of the metasediments, or a much altered rhyolitic to andesitic dike. The known cinnabar occurs as tiny grains disseminated in the silica-carbonate rock and the light-green to bluish rock. All of the rocks, with the exception of the metasediments, contain scattered magnetite.

The geology exposed in the adit is shown on the accompanying map. Extremely dirty walls of these workings prevented examination of all the geologic details. The adit was started in metasediments, cut through these into the light-buff to gray silica-carbonate rock, and then intersected the massive light-green to bluish, altered rock. The drift to the north followed the massive altered rock, and scattered patches of metasediments are exposed in the east wall of the drift.

A band of silty to sandy, gray material, containing angular fragments of wall rock and granite, plus many rounded pebbles of clay and andesitic (?) rock, is exposed in the north 75 feet of this drift. This material may represent a pebble dike, a portion of a mud flow, or may represent filling of an open fissure with water-washed surface material. It is very distinct from the enclosing rock, being only slightly indurated and showing no evidence of the alteration to which the enclosing rocks have been subjected. The margins of this band of material are marked by thin films of gouge, probably resulting from differential movement of the more competent enclosing rocks. This band is quite sinuous in outline along strike and dip but, in general, it strikes N. 20° E. and dips 60° to 88° to the northwest.

Sparsely disseminated cinnabar is exposed in the north wall of the drift, 75 feet from the portal and in widely separated areas in the walls of the drift to the north. There is no continuity of the cinnabar between these locations, and there is no obvious structural control of the cinnabar. The cinnabar occurs both in the buff-to-gray silica carbonate rock and in the green-to-bluish talcy rock.

Four samples were assayed to determine the mercury content of the higher-grade concentrations of cinnabar, and one sample obviously in barren rock was assayed. The sample locations are shown on the

accompanying map. The highest assay, from a sample taken from near the top of a shallow, flooded winze near the north face of the drift was only 0.17 percent or 3.4 pounds of mercury per ton. The barren wall rock assayed nil mercury.

Under the DMEA contract, four diamond drill holes explored the area around the drift. Sparsely disseminated cinnabar was found by this drilling, but nothing approaching ore grade was found.

Indications are that within the altered rocks cinnabar has been widely disseminated, but at no place so far discovered has there been sufficient concentrations of the mineral to constitute ore.

APPLICANT'S PROPOSAL

The applicant proposes to extend the drift 150 feet to the north and to do additional surface trenching to explore the area above the adit and other areas to the west.

Completed work under the DMEA contract included 1,200 feet of trenching and 1,479 feet of diamond drilling. This work failed to find any favorable concentrations of cinnabar.

The underground work which the applicant has completed since the conclusion of the DMEA project work has not found any more favorable evidence of mercury ore than was found by the DMEA work. His new proposal includes work which will duplicate work that has been done previously. The proposed underground work shows little promise of finding ore.

A study of the results of the exploration that has been completed on the property suggests that additional exploration under a DMEA project cannot be justified at this time.

Enclosure

Distribution:
DMEA (Orig. & 3)
USBM (2)
USGS (SRO)
Docket
Puffett

1/24/55 gl

xxxxxxxxxxxxxxxxx
No. 157 Howard Street
Spokane 4, Washington

January 17, 1955

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

Re: Docket No. 3394 (mercury)
Indian Creek Mercury Mines, Inc.
Yakima County, Washington

Dear Mr. Selfridge:

Enclosed are the original and three copies of an application examination report prepared by Willard P. Puffett, geologist, Geological Survey, on the Indian Creek Mercury Mines, Inc., property in Yakima County, Washington.

This property was explored under DMEA Contract No. Idm-R259 (Docket No. DMEA-2297) during the summer of 1952, when the property was owned by the partnership of Whiting and Rowan. No Certification of Discovery or Development was declared as a result of the contract work.

Since the completion of the DMEA contract, the Indian Creek Mercury Mines, Inc., corporation was formed and the corporation financed additional exploration. The new work included the driving of a drift, 370 feet long, which explored the eastern part of the area already explored by trenching and diamond drilling under the DMEA contract.

The enclosed report with map describes this new work. A few scattered locations of very low-grade cinnabar-bearing rock is exposed in the drift, but no evidence has been found to suggest that additional exploration will be successful in discovering an ore body of mercury.

The Field Team concurs with the recommendation in the report that the application be denied.

By Field Team, Region I

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

John S. Vhay, Acting Member
U. S. Geological Survey

cc: USBM (2)
Puffett

XXXXXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

January 14, 1955

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-3594 (mercury), Application examination, Indian Creek Mercury Mines, Inc., Yakima County, Washington

APPLICANT

Indian Creek Mercury Mines, Inc.
1711 Smith Tower Building
Seattle, Washington

INTRODUCTION

Indian Creek Cinnabar Mines, Inc., was organized in February 24, 1953. The president and vice-president of this corporation are Ray R. Whiting, Jr., and Milton P. Neuman, who, as former partners, obtained a Defense Minerals Exploration Administration contract to explore the Indian Creek property during the summer of 1952 (Docket No. DMEA-2297, Contract No. Idm-E259). The contract work, which included hand trenching and diamond drilling, failed to find any minable quantities of cinnabar.

Subsequent to the completion of the DMEA contract, the corporation was organized, and exploration of the property was continued. This work included driving an adit to explore indications of mercury ore near the eastern end of the Denny Ray claim. Apparently the exposures in this adit were sufficiently good to encourage the corporation to apply for DMEA assistance in continuing the underground exploration.

SUMMARY

The adit driven by the applicant has explored the area previously explored by DMEA Diamond Drill Holes No. 9, 10, 11, and 12. Sparsely disseminated and very low-grade cinnabar was found in Holes No. 9, 10, and 11. Equally sparsely disseminated and low-grade cinnabar is exposed in the adit. No promising structural feature is exposed in the adit, along which it can be expected that higher grade concentrations of cinnabar will be found.

RECOMMENDATION

It is recommended that the application be denied.

EXAMINATION

The adit on the applicant's property was examined on Thursday, December 16, 1954, by Willard F. Puffett, geologist, Geological Survey. Mr. Ray R. Whiting, Jr., president of Indian Creek Cinnabar Mines, Inc., accompanied the DMEA examiner. Eight hours were spent at the property during the examination. Snow nearly 20 inches deep obscured the surface near the portal of the adit.

PROPERTY

The applicant's property consists of 24 unpatented claims in the Snoqualmie National Forest, R. 12 E., T. 14 N., Yakima County, Washington. No map of the claims was submitted with the application. There were only three claims included under the former DMEA project. These included the Denny Ray, Indian Creek, and Rowena Cinnabar claims. It is assumed that the 21 additional claims are contiguous with the original three.

The property can be reached by an unimproved road that leads north, paralleling Indian Creek, from near the west end of the Tieton reservoir. The junction between the south end of this road and State Highway No. 5 is about 45 miles west of Yakima, Washington.

Surface facilities include three or four tents and a partially completed log cabin. A 2-ton rotary retort and a 105-c.f.m. compressor are near the portal of the adit. A small open-sided shed has been built over the compressor.

The original discovery work included driving a short adit into the north bank of a small tributary of Indian Creek, nearly in the center of the Denny Ray claim. The new adit, some 350 feet upstream to the east from the short adit, was started in the north bank of the creek but has wandered considerably on bearing crossing under the creek and then turning north, again going underneath the creek. Total length of the adit is 370 feet, and the north face is about 75 feet north of the creek. The outline of the adit is shown on the accompanying plan map.

COMPETENCY OF APPLICANT

Mr. Ray R. Whiting, Jr., president of Indian Creek Mercury Mines, Inc., has been prospecting for mercury for a number of years. He was one of the original discoverers of the Horse Heaven mercury mine in Jefferson County, Oregon. Mr. Whiting has supervised all the exploration work at the Indian Creek property.

The recent exploration work at the Indian Creek property has been financed through the sale of stock in the corporation.

GEOLOGY

The applicant's property is underlain by a complex of altered volcanic and sedimentary rocks, all probably part of the Lower Keechelus formation of Oligocene age. Three main types of rock are exposed: green, well-foliated gneissic metasediments; light buff, medium-grained, massive silica-carbonate rock, and massive, light-green to bluish (somewhat talcy) rock which may represent an altered phase of the metasediments, or a much altered rhyolitic to andesitic dike. The known cinnabar occurs as tiny grains disseminated in the silica-carbonate rock and the light-green to bluish rock. All of the rocks, with the exception of the metasediments, contain scattered magnetite.

The geology exposed in the adit is shown on the accompanying map. Extremely dirty walls of these workings prevented examination of all the geologic details. The adit was started in metasediments, cut through these into the light-buff to gray silica-carbonate rock, and then intersected the massive light-green to bluish, altered rock. The drift to the north followed the massive altered rock, and scattered patches of metasediments are exposed in the east wall of the drift.

A band of silty to sandy, gray material, containing angular fragments of wall rock and granite, plus many rounded pebbles of clay and andesitic (?) rock, is exposed in the north 75 feet of this drift. This material may represent a pebble dike, a portion of a mud flow, or may represent filling of an open fissure with water-washed surface material. It is very distinct from the enclosing rock, being only slightly indurated and showing no evidence of the alteration to which the enclosing rocks have been subjected. The margins of this band of material are marked by thin films of gouge, probably resulting from differential movement of the more competent enclosing rocks. This band is quite sinuous in outline along strike and dip but, in general, it strikes N. 80° E. and dips 60° to 85° to the northwest.

Sparsely disseminated cinnabar is exposed in the north wall of the drift, 75 feet from the portal and in widely separated areas in the walls of the drift to the north. There is no continuity of the cinnabar between these locations, and there is no obvious structural control of the cinnabar. The cinnabar occurs both in the buff-to-gray silica carbonate rock and in the green-to-bluish talcy rock.

Four samples were assayed to determine the mercury content of the higher-grade concentrations of cinnabar, and one sample obviously in barren rock was assayed. The sample locations are shown on the

accompanying map. The highest assay, from a sample taken from near the top of a shallow, flooded winze near the north face of the drift was only 0.17 percent or 3.4 pounds of mercury per ton. The barren wall rock assayed nil mercury.

Under the DMEA contract, four diamond drill holes explored the area around the drift. Sparsely disseminated cinnabar was found by this drilling, but nothing approaching ore grade was found.

Indications are that within the altered rocks cinnabar has been widely disseminated, but at no place so far discovered has there been sufficient concentrations of the mineral to constitute ore.

APPLICANT'S PROPOSAL

The applicant proposes to extend the drift 150 feet to the north and to do additional surface trenching to explore the area above the adit and other areas to the west.

Completed work under the DMEA contract included 1,200 feet of trenching and 1,479 feet of diamond drilling. This work failed to find any favorable concentrations of cinnabar.

The underground work which the applicant has completed since the conclusion of the DMEA project work has not found any more favorable evidence of mercury ore than was found by the DMEA work. His new proposal includes work which will duplicate work that has been done previously. The proposed underground work shows little promise of finding ore.

A study of the results of the exploration that has been completed on the property suggests that additional exploration under a DMEA project cannot be justified at this time.

Enclosure

Distribution:
DMEA (Orig. & 3)
USBM (2)
USGS (SRO)
Docket
Puffett

700

Ellis

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

DEC 28 1954

Hon. Thor C. Tollefson
House of Representatives
Washington, D. C.

Re: Docket No. DMEA-3594 (Mercury)
Indian Creek Mercury Mines, Inc.
Yakima County, Washington

My dear Mr. Tollefson:

This will acknowledge receipt of your letter of December 23 to Mr. Robert E. Adams of this Agency. I note you urge consideration of the captioned application.

A copy of the subject application is presently with the DMEA Field Team in Spokane, Washington. It is their plan to examine the property as soon as feasible and submit a recommendation to Washington.

As soon as the Field Team report is received, please be assured we will give it prompt attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

EWEllis/gla
12-28-54
cc to: Admr.'s Reading File
Docket
Messrs. H. M. Meyer, Rm. 2623
T. H. Kiilsgaard, Rm. 5224
Code 700
DMEA Field Team, Region II (2), w/2cc incoming letter

R.C.3.

1-11-55

Mr. Collier of Senator Magnuson's office called re status of Indian Creek Mercury Mines Inc. (Docket 3594) I told him the status and also about the enquiry from Rep. Tollefson's office. I also told him that the Rep's letter (copy) & our reply (copy) went to the F.T. Mr. Collier was well satisfied with my answer. EWE

Ext. 806
Tel 190

1-24-55 Report arrived. I notified Collier called again 1-24-55

Mr. Collier, Senator Magnuson's office 1-31-55

Extension 806, Capitol

phoned in regard to Indian Creek Mercury Mines
DMEA-3594

I told him I'd ask you to call back.
First copy of FT report was received by us on January 24, 1955, recommending denial. Operating Committee cleared it on the 28th and copies have gone to the Commodity Members for comments.

called back at 1:00 p.m. EWE.

gla

called Mr. C April 11th & said 2nd F.T. report rec'd

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

December 6, 1954
Subject: DMEA-3594
Re: Exploration Assistance

Indian Creek Mercury Mines, Inc.
1711 Smith Tower Bldg.
Seattle, Washington

Gentlemen:

The receipt of your application dated November 16, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3594 and referred to the Rare and Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

XXXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

November 30, 1954

Mr. Albert M. Franco, Secretary-Treasurer
Indian Creek Mercury Mines, Incorporated
1711 Smith Tower
Seattle 4, Washington

Re: New application (cinnabar)
Indian Creek Mercury Mines, Inc.
Yakima County, Washington

Dear Mr. Franco:

Your application for aid in an exploration project on the Indian Creek Mercury property in Yakima County, Washington, has been received and forwarded to our Washington office.

We are interested to learn that work on the property since the contract was completed has shown some possible controls of mineralization. Mr. Puffett of this office is in the field at present, but will make an examination of the property as soon as possible, weather permitting.

Yours sincerely,

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Puffett

XXXXXXXXXXXXXXXX
So. 157 Howard Street
Spokane 4, Washington

November 30, 1954

Mr. Albert M. Franco, Secretary-Treasurer
Indian Creek Mercury Mines, Incorporated
1711 Smith Tower
Seattle 4, Washington

Re: New application (cinnabar)
Indian Creek Mercury Mines, Inc.
Yakima County, Washington

Dear Mr. Franco:

Your application for aid in an exploration project on the Indian Creek Mercury property in Yakima County, Washington, has been received and forwarded to our Washington office.

We are interested to learn that work on the property since the contract was completed has shown some possible controls of mineralization. Mr. Puffett of this office is in the field at present, but will make an examination of the property as soon as possible, weather permitting.

Yours sincerely,

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Puffett

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

November 30, 1954

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

Re: New application (cinnabar)
Indian Creek Mercury Mines, Inc.
Yakima County, Washington

Dear Mr. Selfridge:

Enclosed are the original and two copies of an application for aid in an exploration project submitted by Indian Creek Mercury Mines, Inc., of Seattle, Washington. The applicant proposes to explore a property consisting of 24 claims in the Snoqualmie National Forest, Yakima County, Washington.

This property, consisting at that time of four claims, was explored in 1952 under Contract Idm-E259, Docket No. DMEA-2297; the trenching and drilling cost $14,698.85, and no discovery resulted. Additional work since the contract was completed is reported to have disclosed interesting showings of mercury in an adit. A field examination will be scheduled as soon as feasible.

Yours sincerely,

John S. Vhay

John S. Vhay
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)
Puffett

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1085.2.

RECEIVED
NOV 18 1954
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. 3594
Metal or Mineral Mercury
Date Received
Estimated Cost $26,000
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Indian Creek Mercury Mines, Inc., 1711 Smith Tower Bldg., Seattle, Wash.

(*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 (Twenty-four) unpatented mining claims staked in the Snoqualmie National Forest, Yakima County, R. 12 E. T. 14 W.

(*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 Cinnabar

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

(*c*) The work will start within 15 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated November 16, 1954

Indian Creek Mercury Mines, Inc.
(Applicant)

By Ray R Whitmer Jr.
(President)

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

DEPARTMENT OF THE INTERIOR
Bureau Mines Administration
RECEIVED
DEC 6 1954

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

1. (a) Indian Creek Mercury Mines, Inc.
1711 Smith Tower Bldg.
Seattle, Washington

(b) Washington Corporation
The corporation was organized as a Washington corporation with its principal place of business in Seattle, Washington, and its Articles of Incorporation were filed February 24th, 1953.

(c) Officers:

Ray R. Whiting, Jr. - President
6226 - 22nd N. E., Seattle, Washington

Milton P. Roumm - Vice President
1920 Calhoun, Seattle, Washington

Albert M. Franco - Secretary-Treasurer
1711 Smith Tower, Seattle, Washington

Directors:

Name	Address
Ray R. Whiting, Jr.	6226 - 22nd N. E., Seattle, Wash.
Clyde E. Whiting	" " " "
Milton P. Roumm	1920 Calhoun, " "
Edith Roumm	" " " "
Elazar D. Behar	220 - 25th Ave., Seattle, Wash.
May Antin	6037 Princeton, " "
Albert M. Franco	1711 Smith Tower, " "
Mrs. William Weinstein	1109 Franklin, " "
Charles S. Fine, M.D.	6203 Vassar, " "

(d) Washington Corporation

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

3. (a) (Twenty-four) unpatented mining claims staked in the Snoqualmie National Forest. Yakima County, R. 12 E, T. 14 N.

(b) Indian Creek Mercury Mines, Inc.

(c) Owner (24) unpatented mining claims.

(d) Owner.

(e) None.

(f)

Name of Claim	Auditor's No.	Vol.	Page No.
Florida Cinnabar Claim	1493443	G	133
Eugene Cinnabar " "	1493442	G	130
Delaware " "	1493441	G	127
California " "	1493440	G	124
Arkansas " "	1493439	G	121
Arizona " "	1493438	G	118
Alabama " "	1493437	G	115
Indiana " "	1493447	G	145
Illinois " "	1493446	G	142
Idaho " "	1493445	G	139
Georgia " "	1493444	G	136
Texas " "	1493432	G	160
Oregon " "	1493451	G	157
Omo " "	1493450	G	154
Ohio " "	1493449	G	151
Maine " "	1493448	G	148
Tieton " "	1421173	F	555
Roumm " "	1417825	F	548
North Star " "	1421175	F	559
Big Dipper " "	1421174	F	557
H. O. Hoy " "	1434279	G	19
Rimrock " "	1436050	G	21
Indian Creek Cinnabar Claim	1377867	F	539
Denny Ray " "	1377868	F	537

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

4. (a) The property was discovered in 1951, and in 1952 a limited amount of surface trenching and 1,489 feet of diamond drilling was done under a Defense Minerals Exploration Administration Contract (D.M.E.A. Docket No. 2297). In 1953 a drift was started in the eastern end of the altered zone. A report and maps are attached to this report.

Production Facilities:

1 - Two-ton rotary retort, fired by wood or oil
1 - 7 (H.P.) Fairbanks Morse gas engine
1 - Condenser system
1 - Complete drive shaft with belts
1 - 5 x 7 crusher
1 - 5 (H.P.) gas engine for crusher

Indian Creek Mercury Mines, Inc., has carried on this work. The tunnel is accessible for examination.

(b) No production; no blocked ore.

(c) Description of Property:

Orebodies: At three general localities within a highly altered rock composed of quartz, carbonates, hydrous silicates and iron oxides widespread quicksilver mineralization is evident. Finely disseminated cinnabar is visible in much of the rock, which will assay from a trace to 12 lbs. or more in quicksilver per ton of rock. Panning tests indicate that such mineralization is not limited to the three areas.

In Area 1, an adit has been driven to intersect a North 20 East mineralized structure along a crushed and altered basic dike, which is paralled by a shear zone. The mineralized structure is a bluish green talcose phase of the altered rock. Its apparent width is at least four feet and may reach ten feet or more. Selected specimens of this rock are fair quicksilver ore and bulk samples taken from the face and from a ten foot deep winze near the northerly face indicates a grade of 8 lbs. a ton or better over a known width of four feet.

In the other known quicksilver bearing areas no particular structure has been identified but it seems likely that careful surface work may delineate similar structures.

THOR C. TOLLEFSON
6TH DISTRICT, WASHINGTON

PIERCE COUNTY
KING COUNTY (PART)

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

COMMITTEE:
MERCHANT MARINE AND FISHERIES

SUBCOMMITTEES:
MARITIME AFFAIRS
FISH AND WILDLIFE

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 27 1954

December 23, 1954

DMEA-3594

Mr. Robert E. Adams
Rare & Miscellaneous Metals Division
Department of the Interior
Washington 25, D. C.

Re: Mr. Al Franco
Seattle, Washington

Dear Mr. Adams:

It is my understanding that Mr. Franco has made an application for a government loan to assist in the financing of a mining operation located on the eastern side of Mt. Rainier in the state of Washington. I am informed that the application is being processed by you.

This letter is written simply to urge that Mr. Franco's application be given your thorough consideration. From all the information that I have been able to obtain, Mr. Franco and his associates are reliable people.

Thank you for your courtesy in the matter.

Very truly yours,

Thor C. Tollefson

THOR C. TOLLEFSON, M.C.

TCT/ss

12/22/54 gla

INDIAN CREEK MERCURY MINES, INC.

1711 SMITH TOWER

SEATTLE 4, WASHINGTON

ELLIOTT 5622

RAY R. WHITING, JR.
PRESIDENT

MILTON P. ROUMM
VICE-PRESIDENT

ALBERT M. FRANCO
SECRETARY AND TREASURER

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 21 1954

December 16, 1954

United States Department of Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Attention: Robert E. Adams, Chief
Operations Control & Statistics Division

Gentlemen:

Re: Docket No. DMEA-3594

Thank you very much for your letter of December 6, 1954, advising that you had received our application for exploration assistance under the Defense Production Act of 1950. We are certain that you will process this application as expeditiously as possible.

Very truly yours,

INDIAN CREEK MERCURY MINES, INC.

Albert M. Franco

ALBERT M. FRANCO, Sec.-Treas.

AMF:HF

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

December 6, 1954

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 - 3594 Indian Creek Mercury Mines, Inc.

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

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

4. (d) The property lies in a narrow steep tributary of Indian Creek. It is reached by an unimproved road that leaves highway No. 5 near Silver Beach Resort on Tieton Lake. Total distance to mine is ($5\frac{1}{2}$ miles). The last half mile can be covered by trucks, but is not suitable for passenger cars. Main supply center is Yakima, Washington, (50 miles) from mine. Seattle, Washington is 120 miles from mine.

(e) Manpower, materials, supplies can be obtained in either Yakima, Washington, a distance of (50 miles) from property, or Seattle, Washington, a distance of (120) miles from property. Water is supplied by year around creek running through property. Eighty foot water falls 20 cu. ft. or better. January 1, 1955, public power line will be within four miles of property.

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

5. (a) Cinnabar

(b) Proposed Development Program: A development program should have as its primary aim:

1. Exploration of the known mineralized structure to determine if minable bodies of quicksilver ore exist.

2. An attempt to determine the structure that may exist in those areas where surface exploration has shown the existence of cinnabar.

It should be noted that diamond drilling in 1952 was planned on the assumption that structural control was most likely to extend in an East-West direction. As the only known structure is N 20 E the diamond drilling would appear to provide little more than negative information. It does, however, provide information on the extent of alteration and must be included in any geological studies.

The following program is recommended and the order of priority given.

1. Continue the present drift in its northerly direction and sample each round. There is some suggestion that the altered zone widens to the north and a junction of the structure with the small basic dike observed near the portal seems possible. A widened zone of brecciation and alteration bounded on the east by the principal dike and shear zone and on the northwest by the smaller dike (both dikes are quite impervious) is considered a favorable locus for ore deposition. Drifting should continue at least 150 feet from the present face.

2. While the drifting is being done, the basic dike should be carefully followed on the surface by trenches at 20 foot intervals. This work will have as its aim not only the discovery of such surface ore as may exist but will also assist in planning and correlating underground work.

3. Follow the basic dike to the south by surface trenches or pits. A 20 foot interval along the line of strike is suggested.

4. If surface work to the south indicates a continuation of favorable structure, the drift should be extended in a southerly direction.

5. In area 3, the old pits should be cleaned out and additional trenches dug. Careful mapping and sampling should be used to determine any trends in alteration and mineralization. Any recognizable structure should be traced by additional trenches or pits.

6. Similar procedure should be followed in area 2.

7. Other basic dikes are known to exist within the altered zone. These should be traced through the altered rock by surface work.

8. Aerial photos of the property are undoubtedly obtainable and should be studied to see if clues to structure can be obtained.

The limited program suggested would not bring the prospect to the mining stage. If the information obtained by the execution of the program is definitely negative the project should be abandoned.

If, as seems quite possible, the project should demonstrate the existence of one orebody of commercial grade and extent and should indicate the likelihood of finding similar orebodies, a much more extensive program of underground development should be undertaken.

Proper evaluation and interpretation of the work done under the program depends on detailed sampling and mapping. It is strongly recommended that a student engineer be employed.

As quicksilver deposits are notoriously difficult to sample by ordinary channel sampling methods, particularly at the surface, it is recommended that bulk samples be taken for crushing and splitting at the mine.

5. (c) The underground work could start within 15 days, and be completed within three months from date of exploration project contract. Surface work depends on snow run off. Work could start approximately June 1, 1955, and completed within three months from June 1, 1955.

(d) While Indian Creek Mercury Mines, Inc. has been in existence only since February 27, 1953, the corporation actually succeeded the previous operators of the Indian Creek prospect, Messrs. Ray R. Whiting, Jr. and Milton P. Roumm. Mr. Whiting, the original discoverer of the Indian Creek prospect, is now the president of the corporation, and has had long experience in quicksilver. He is one of the discoverers and developers of the Horse Heaven mine in Oregon and this mine was a substantial producer for many years. His father also is an experienced man in quicksilver exploration and development and passed much of his knowledge to his son.

Mr. Roumm, although not a mining man by profession, has prospected with Mr. Whiting for many years and has a good lay knowledge of mining.

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

5. (d) continued

Mr. Whiting personally supervises the operations at the mine and Mr. Roumm assists in financing and providing necessary provision and supplies.

Applicant is of the opinion that it has both the ability and experience to carry out the project.

In addition to the foregoing personnel, Fred Webb of Yakima, Washington, a stockholder in the corporation and owner of considerable heavy equipment, is interested in the prospect and has in the past furnished, and applicant believes will in the future furnish, heavy equipment as well as personnel to perform certain important functions at a minimum of cost.

Charles F. Herbert, the mining engineer who rendered the report appended to this application, is available for technical assistance and has indicated an interest in providing such technical help as is necessary and practicable.

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

6. Estimate of Cost:

Total cost of preliminary project ($26,000), with underground work and surface work done concurrently. Due to weather conditions this would delay the work until late Spring. However, underground work can be done through the winter of 1954-55, with surface work in the late Spring of 1955. A program of this nature would add $4,000 to $6,000 to the above estimated costs.

(a) Independent Contracts.

a. Probable contract prices are:

Drifting	$ 22.00 per foot
Trenching	2.00 per lineal foot
Add for each foot below three feet	0.50 " " "
Test Pits	
Pits under 4 ft. deep	2.50 per vertical foot
Add for each foot from 4 ft. to 6 ft.	0.50
" " " " " 6 ft. to 8 ft.	1.50
" " " " " 8 ft.	3.50

Estimated cost of development is:

Contract payments:				
250 feet drifting	@	22.00	$ 5,500	
1500 feet trenching		2.00	3,000	
add for extra depth			400	
400 feet test pits		2.50	1,000	
add for extra depth			600	
				$10,500
(b) Labor, supervision, etc.				
1 cook and roustabout, 3 months	@	350	1,050	
1 student-engineer, 3 months		450	1,350	
1 superintendent, 3 months		600	1,800	
1 consultant geologist			500	
				$ 4,700
(c) Operating Materials and Supplies				
Fuel and lubricants			300	
Mine timber, small tools, etc.			400	
				$ 700

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

(d) Equipment		
Compressor and jackhammer (balance due)	$1,000	
400 feet 12# rail and fittings	250	
200 feet 2" pipe and fittings	150	
Spare CP 59 sinker (used) and parts	200	
Sample crusher and small gas engine	250	
Rail bender	50	
		$ 1,900
(e) Rehabilitation and Repairs		
Road and camp repairs and maintenance		1,000
(f) Construction:		
Finish construction of cabin and furnish	1,200	
2 tents, frames and heaters	300	
		1,500
(g) Miscellaneous:		
Assaying and shipment samples	1,500	
Accounting and office supplies	300	
Miscellaneous repairs	150	
Jeep operating cost, hauling	400	
Loss on boarding house	400	
Travel and transportation expense	500	
Compensation insurance, payroll taxes	1,800	
		5,050
(h) Contingencies		650
TOTAL COST OF PROJECT		$26,000

Indian Creek Mercury Mines, Inc.
1711 Smith Tower
Seattle, Washington

7. (a) Yes.

(b) The applicant will be able to supply its share of the costs of the exploration project. While the corporation has a permit from the State of Washington to sell its stock to the public, its finances have been furnished essentially by private capital. There has been no advertising of the stock to the general public and actually a handful of persons have furnished the greater portion of the money up to this time.

Among the existing stockholders and directors, their friends and acquaintances, the corporation should be able to furnish its share of the necessary costs.

It is to be noted that the corporation has operated since its inception without a complete shutdown in this manner.

Charles F. Herbert
1013 Smith Tower, Seattle
November 10, 1954

REPORT

NAME AND LOCATION OF MINE: Indian Creek mercury prospect, Yakima County, Washington.

OWNERSHIP: Indian Creek Mercury Mines, Inc., 1711 Smith Tower, Seattle, Wash.

SUMMARY: A highly altered rock consisting of quartz, carbonates, hydrous silicates and iron oxides is exposed for a distance of more than 1,400 feet in a tributary of Indian Creek and has a width of 300 feet, more or less. This rock carries cinnabar in disseminated specks and on fracture surfaces at several general localities in the altered rock.

On the eastern end of the altered zone a drift has been run for 150 feet on a talcose phase of the altered rock, following a crushed and altered basic dike that apparently also parallels a shear zone. Encouraging assays of the material near the dike and the general structural relations suggest that ore may be developed in the drift.

It is likely that other favorable structures may be developed at two or three other places on the property.

There is no developed orebody and no estimate of probable grade or tonnage can be made.

RECOMMENDATION: A limited program of drifting and trenching is recommended. If this program should indicate the existence of probable ore of sufficient grade and quantity a second program involving considerable drifting, raising and possibly sinking should be initiated.

The preliminary program will cost $26,000; the secondary program may cost two or three times that amount.

HISTORY: The property was discovered in 1951 and, in 1952, a limited amount of surface trenching and 1,489 feet of diamond drilling was done under a Defense Minerals Exploration Administration contract (DMEA Docket No.2297). No commercial ore was discovered.

The DMEA loan was made to the locator, Ray R. Whiting, Jr. and his associate, Milton P. Roumm. These men then formed Indian Creek Mercury Mines, Inc., transferred the property to the corporation and, in 1953, initiated the underground work. Underground workings as of this date total 420 feet.

DESCRIPTION OF PROPERTY:

General: The property lies in a narrow steep tributary of Indian Creek. It is reached by an unimproved road that leaves Highway No.5 near Silver Beach Resort on Tieton Lake. The last half mile can be covered by trucks but is not suitable for passenger cars. Elevation at the portal is about 4,800 feet above sea level.

DESCRIPTION OF PROPERTY (continued)

Orebodies: At three general localities within a highly altered rock composed of quartz, carbonates, hydrous silicates and iron oxides widespread quicksilver mineralization is evident. Finely disseminated cinnabar is visible in much of the rock, which will assay from a trace to 12 lbs. of more in quicksilver per ton of rock. Panning tests indicate that such mineralization is not limited to the three areas.

In Area 1, an adit has been driven to intersect a North 20 East mineralized structure along a crushed and altered basic dike, which is paralled by a shear zone. The mineralized structure is a bluish green talcose phase of the altered rock. Its apparent width is at least four feet and may reach ten feet or more. Selected specimens of this rock are fair quicksilver ore and bulk samples taken from the face and from a ten foot deep winze near the northerly face indicate a grade of ~~18~~ 8 lbs. a ton or better over a known width of four feet.

In the other known quicksilver bearing areas no particular structure has been identified but it seems likely that careful surface work may delineate similar structures.

Mining Conditions: The silica carbonate rock drills easily, breaks well and stands with little timber support. Water is not troublesome. The basic dike is badly faulted and would give some minor trouble in stopes if ore is found on both sides of the dike. Present workings indicate that the dike may be left on the east wall (footwall).

Development headings (5 x 7) are currently driven with seven holes; powder consumption is 4.5# of 40% per foot.

As the valley walls are steep, mining from adit levels would appear to be possible. However, this feature of the topography makes surface dump room and surface plant installations rather difficult to obtain.

Milling Conditions: The ore appears to be clean. There is a very minor amount of iron sulfides (pyrite and marcasite); no antimony or arsenic minerals were noticed under a hand lens.

Direct furnacing should be feasible but flotation concentration should be studied.

Equipment: The property is equipped as follows:

1	Schramm 105 c.f. air compressor with gas engine
1	CP Model No.59 sinker with jack-leg and hoses
100'	2" air pipe
1000'	1" " "
1	16 c.f. mine car
1100'	12# rail
1	Willys jeep
1	McCullough 24" chain saw
	Small tools
	Camp and cookhouse equipment for four men
	Incomplete log cabin

DEVELOPMENT PROGRAM: A development program should have as its primary aim:

1. Exploration of the known mineralized structure to determine if minable bodies of quicksilver ore exist.

2. An attempt to determine the structure that may exist in those areas where surface exploration has shown the existence of cinnabar.

It should be noted that diamond drilling in 1952 was planned on the assumption that structural control was most likely to extend in an East-West direction. As the only known structure is N 20 E the diamond drilling would appear to provide little more than negative information. It does, however, provide information on the extent of alteration and must be included in any geological studies.

The following program is recommended and the order of priority given.

1. Continue the present drift in its northerly direction and sample each round. There is some suggestion that the altered zone widens to the north and a junction of the structure with the small basic dike observed near the portal seems possible. A widened zone of brecciation and alteration bounded on the east by the principal dike and shear zone and on the northwest by the smaller dike (both dikes are quite impervious) is considered a favorable locus for ore deposition. Drifting should continue at least 150 feet from the present face.

2. While the drifting is being done, the basic dike should be carefully followed on the surface by trenches at 20 foot intervals. This work will have as its aim not only the discovery of such surface ore as may exist but will also assist in planning and corelating underground work.

3. Follow the basic dike to the south by surface trenches or pits. A 20 foot interval along the line of strike is suggested.

4. If surface work to the south indicates a continuation of favorable structure, the drift should be extended in a southerly direction.

5. In area 3, the old pits should be cleaned out and additional trenches dug. Careful mapping and sampling should be used to determine any trends in alteration and mineralization. Any recognizable structure should be traced by additional trenches or pits.

6. Similar procedure should be followed in area 2.

7. Other basic dikes are known to exist within the altered zone. These should be traced through the altered rock by surface work.

8. Aerial photos of the property are undoubtedly obtainable and should be studied to see if clues to structure can be obtained.

DEVELOPMENT PROGRAM (continued)

The limited program suggested would not bring the prospect to the mining stage. If the information obtained by the execution of the program is definitely negative the project should be abandoned.

If, as seems quite possible, the project should demonstrate the existence of one orebody of commercial grade and extent and should indicate the likelihood of finding similar orebodies, a much more extensive program of underground development should be undertaken.

Proper evaluation and interpretation of the work done under the program depends on detailed sampling and mapping. It is strongly recommended that a student engineer be employed.

As quicksilver deposits are notoriously difficult to sample by ordinary channel sampling methods, particularily at the surface, it is recommended that bulk samples be taken for crushing and splitting at the mine.

COST OF DEVELOPMENT: Drifting, trenching and test pitting can best be done by labor contracts. The operator will furnish everything but will charge for explosives, drill steel and bits.

Probable contract prices are:

Drifting	$22.00 per foot
Trenching	2.00 per lineal foot
Add for each foot below three feet	0.50 " " "
Test Pits	
Pits under 4 ft. deep	2.50 per vertical foot
Add for each foot from 4 ft. to 6 ft.	0.50
" " " " " 6 ft. to 8 ft.	1.50
" " " " " 8 ft.	3.50

Estimated cost of development is:

a. Contract payments:			
250 feet drifting	@ 22.00	$5,500	
1500 feet trenching	2.00	3,000	
add for extra depth		400	
400 feet test pits	2.50	1,000	
add for extra depth		600	
			$10,500
b. Labor, supervision, etc.			
1 cook and roustabout, 3 months	@ 350	1,050	
1 student-engineer, 3 months	450	1,350	
1 superintendent, 3 months	600	1,800	
1 consultant geologist		500	
			4,700

c. Operating Materials and Supplies		
Fuel and lubricants	$300	
Mine timber, small tools, etc.	400	
		$ 700
d. Equipment		
Compressor and jackhammer (balance due)	1,000	
400 feet 12# rail and fittings	250	
200 feet 2" pipe and fittings	150	
Spare CP 59 sinker (used) and parts	200	
Sample crusher and small gas engine	250	
Rail bender	50	
		1,900
e. Rehabilation and Repairs		
Road and camp repairs and maintenance		1,000
f. Construction:		
Finish construction of cabin and furnish	1,200	
2 tents, frames and heaters	300	
		1,500
g. Miscellaneous:		
Assaying and shipment samples	1,500	
Accounting and office supplies	300	
Miscellaneous repairs	150	
Jeep operating cost, hauling	400	
Loss on boarding house	400	
Travel and transportation expense	500	
Compensation insurance, payroll taxes	1,800	
		5,050
h. Contingencies		650
TOTAL COST OF PROJECT		$26,000

The project can be completed in three months.

CONCLUSION: The Indian Creek prospect has sufficient showing to warrant additional development work. Underground work and surface work should preferably be done concurrently, a feature that would necessarily time the project from late spring through early summer of 1955. Underground work can be done through the winter of 1954-55, with surface work in the late spring of 1955. A program of this nature would add $4,000 to $6,000 to the above estimated costs but is worthy of consideration in view of the production limit on quicksilver at the guaranteed price of $225 a flask.

Charles F. Herbert

Charles F. Herbert
November 10, 1954

CERTIFIED COPY

GUTBERLET LABORATORIES

205 Alaskan Way So. Seattle 4, Washington

July 8, 1954

Indian Creek Mercury Mine
1711 - Smith Tower
Seattle, Washington

Report No. 15440

Gentlemen:

We hereby certify as follows the results of a spectrographic examination of a sample of ore submitted to us by you.

Sample Marked: Sample No. 3
(Our Report No. 15418)

Main Constituent - - - - - - - - - - - - - - - - - Silicon

Intermediate Constituents - - - - - - - - - - - Calcium, Iron
Aluminum, Magnesium

Minor Constituents

Chromium(Cr)	0.10%
Manganese(Mn)	0.05%
Titanium(Ti)	0.05%
Copper(Cu)	0.01%
Sodium(Na)	0.01%
Strontium(Sr)	0.01%
Boron(B)	0.005%
Vanadium(V)	0.005%
Nickel(Ni)	0.005%
Cobalt(Co)	0.001%
Mercury(Hg)	Present

Respectfully submitted,

s/ E. L. Gutberlet

GUTBERLET LABORATORIES

Certified copy of true original

Ray R. Anthony Jr.

CERTIFIED COPY

GUTBERLET LABORATORIES

205 Alaskan Way So. Seattle 4, Washington

November 11, 1954

Indian Creek Mercury Mine
1711 - Smith Tower
Seattle, Washington

Report No. 15822

Gentlemen:

We hereby certify that we have Analyzed four samples of

ORE

submitted to us by you November 8, 1954 and have to report as follows:

Sample Marked	Mercury(Hg)	Pounds per Ton
No. 1(3 small pieces)	0.45%	9.0
No. 2(out of brown sack)	0.40%	8.0
No. 3(green)	0.30%	6.0
No. 4 Brown	0.30%	6.0

Respectfully submitted,

s/ E. L. Gutberlet

GUTBERLET LABORATORIES

Certified copy of
true original
Ray K Hutchings Jr

CERTIFIED COPY

GUTBERLET LABORATORIES

205 Alaskan Way So. Seattle 4, Washington

October 8, 1954

Indian Creek Mercury Mine
1711 - Smith Tower
Seattle, Washington

Report No. 15709

Gentlemen:

We hereby certify that we have Analyzed a sample of

ORE

submitted to us by you October 6, 1954 and have to report as follows:

Sample Marked No. 1.

Mercury(Hg) - - - - - - - - - 0.60%
Pounds per ton - - - - - 12.0

Respectfully submitted,

s/ E. L. Gutberlet

GUTBERLET LABORATORIES

Certified copy of
true original
Ray R [illegible]

CERTIFIED COPY

GUTBERLET LABORATORIES

205 Alaskan Way South Seattle 4, Washington

November 4, 1954

Indian Creek Mercury Mine
1711 - Smith Tower
Seattle, Washington

Report No. 15794

Gentlemen:

We hereby certify that we have Analyzed two samples of

ORE

submitted to us by you November 2, 1954 and have to report as follows:

Sample Marked	Mercury(Hg)	Pounds per Ton
Sample A (Large Sample) Wt. of Sample 40 Lbs.	0.46%	9.2
Sample B (Small Sample)	0.75%	15.0

Respectfully submitted,

s/ E. L. Gutberlet

GUTBERLET LABORATORIES

Certified copy of true original
Ray Rathbun

CERTIFIED COPY

GUTBERLET LABORATORIES

205 Alaskan Way So. Seattle 4, Washington

May 27, 1954

Report No. 15311

Indian Creek Mercury Mine
1711 - Smith Tower
Seattle, Washington

Gentlemen:

We hereby certify that we have analyzed four samples of

MERCURY ORE

submitted to us by you and have to report as follows:

Sample Marked	Mercury(Hg)	Pounds Mercury Per Ton Ore
9588-A	0.22%	4.4
9588-B	0.34%	6.8
9588-C	0.24%	4.8
9588-D	0.42%	8.4

Respectfully submitted,

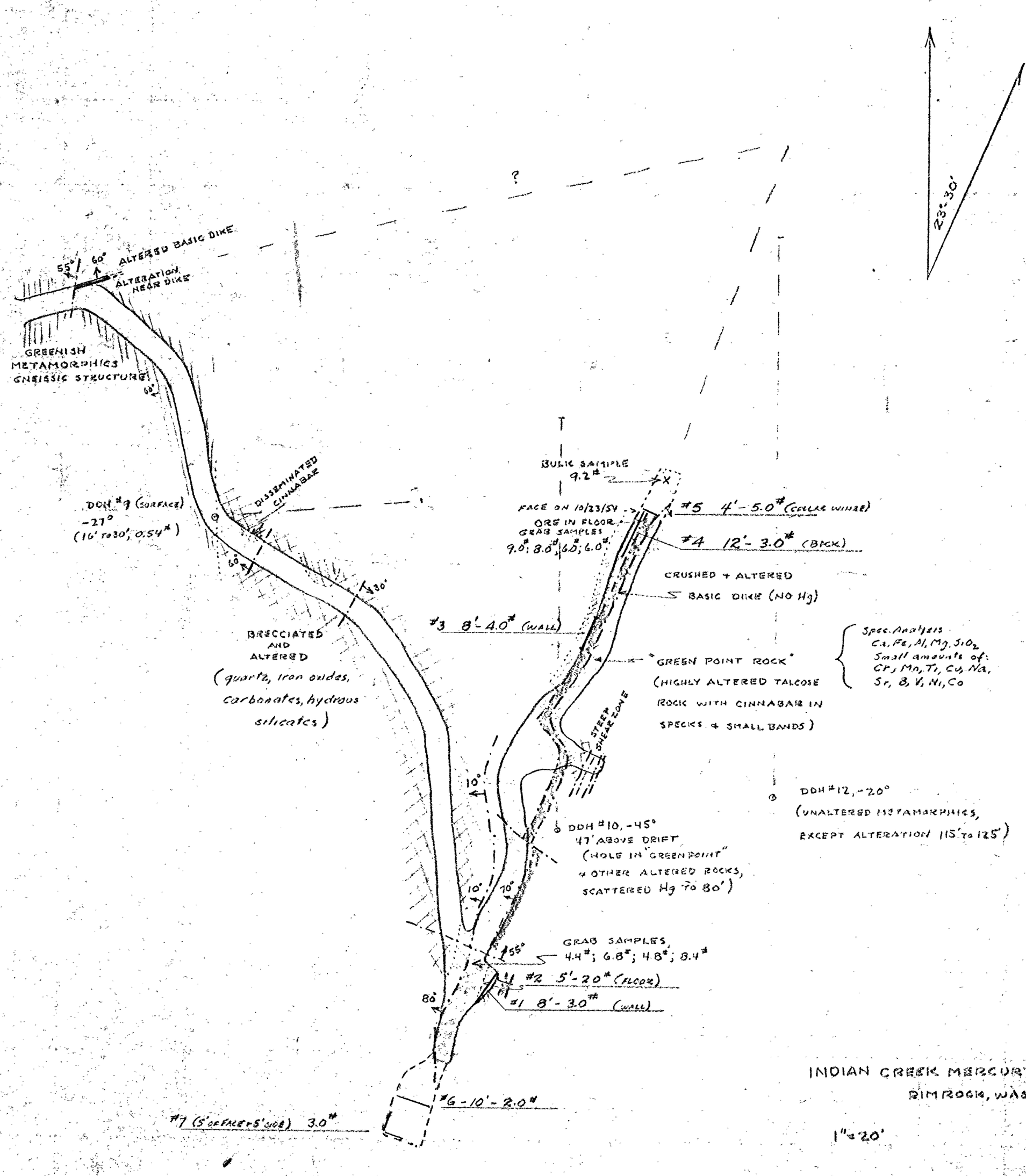
s/ E. L. Gutberlet

GUTBERLET LABORATORIES

Certified copy of
true original
Ray [illegible]

OFFICIAL BUSINESS

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



INDIAN CREEK MERCURY MINES, INC.
RIMROCK, WASH

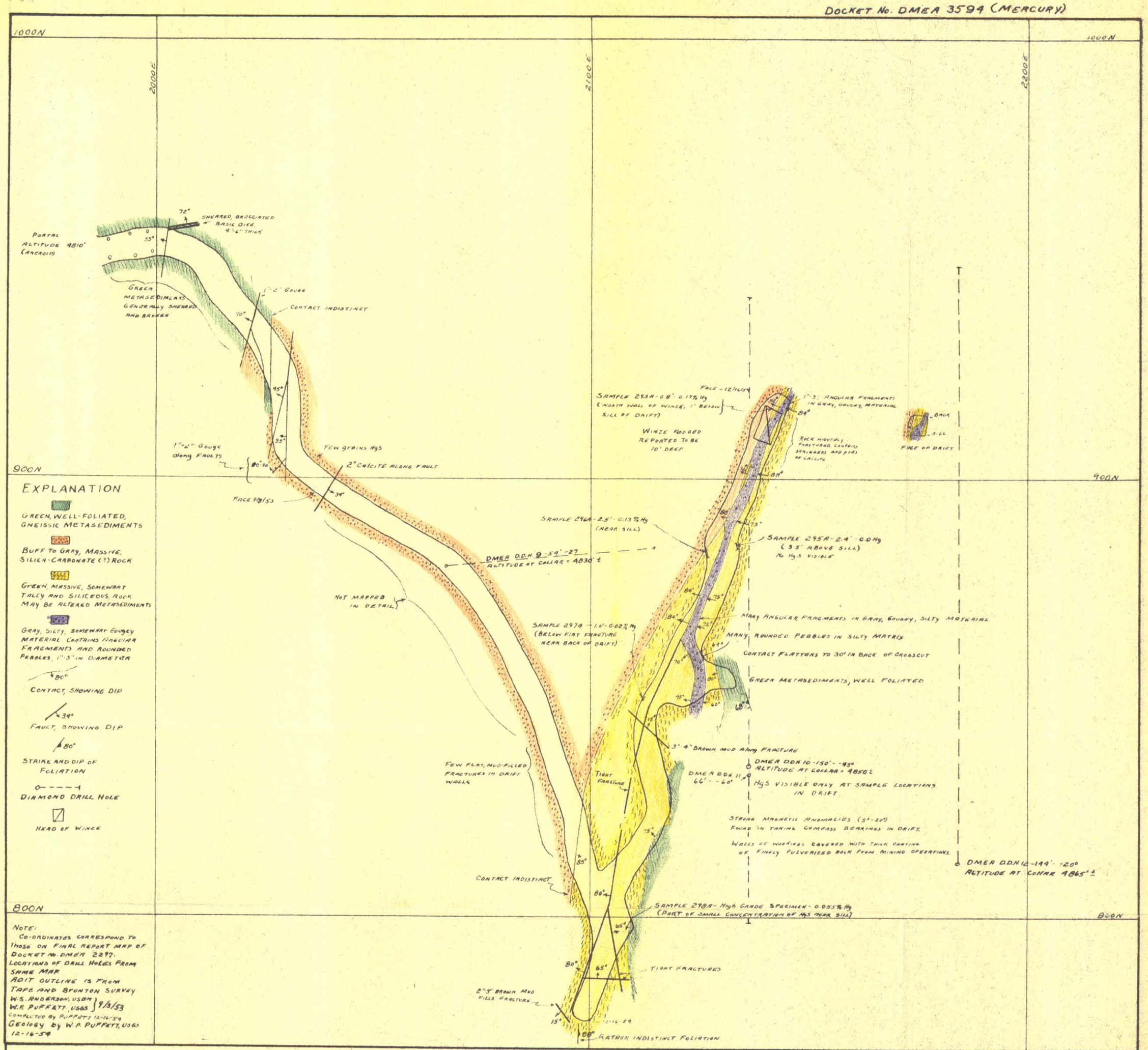
1" = 20'

10/23/54
C.F.H.

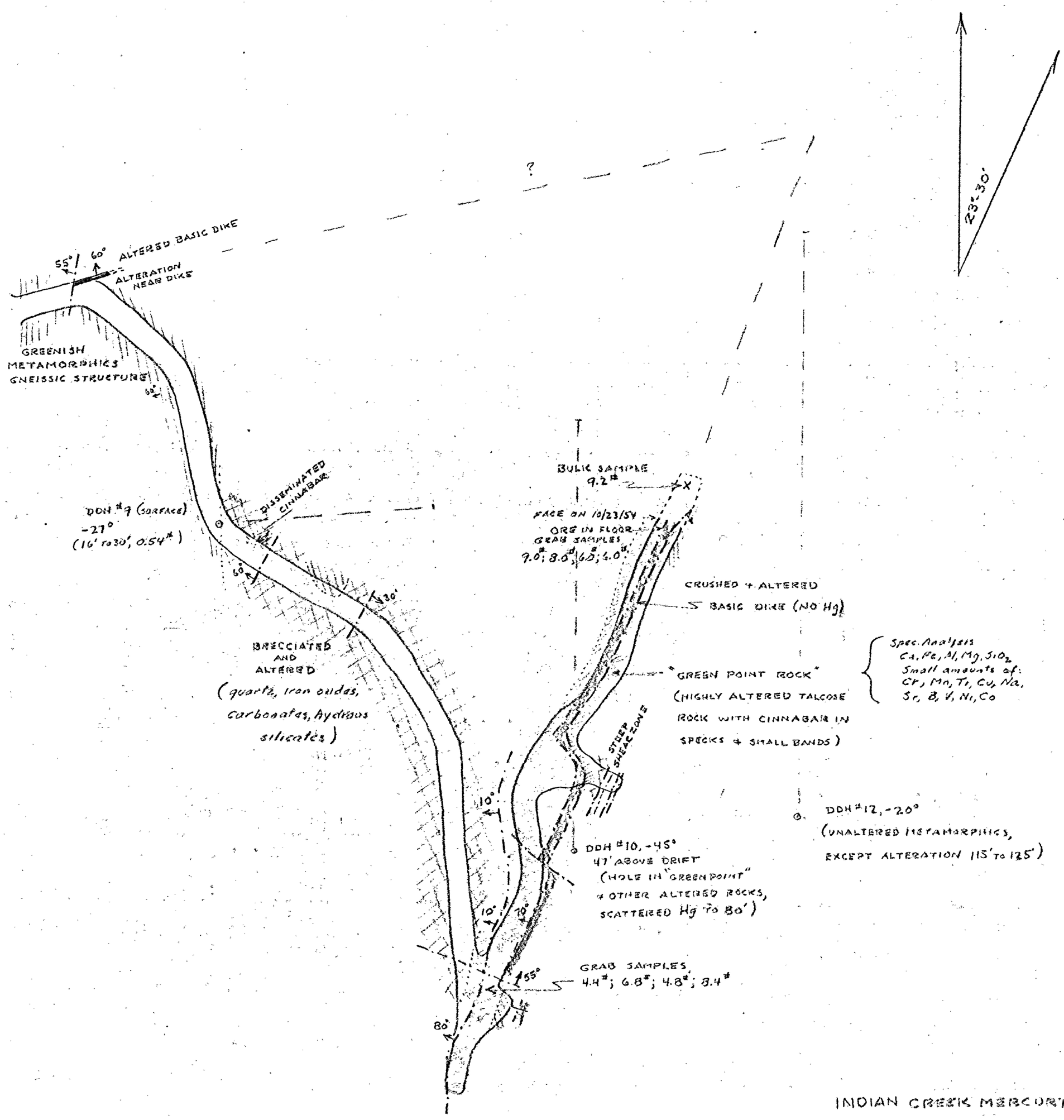
NOTE: SAMPLES #1 TO #7 TAKEN MARCH 2 & 5 BY RAY R. WHITING.

Encl. 3

DOCKET No. DMEA 3594 (MERCURY)



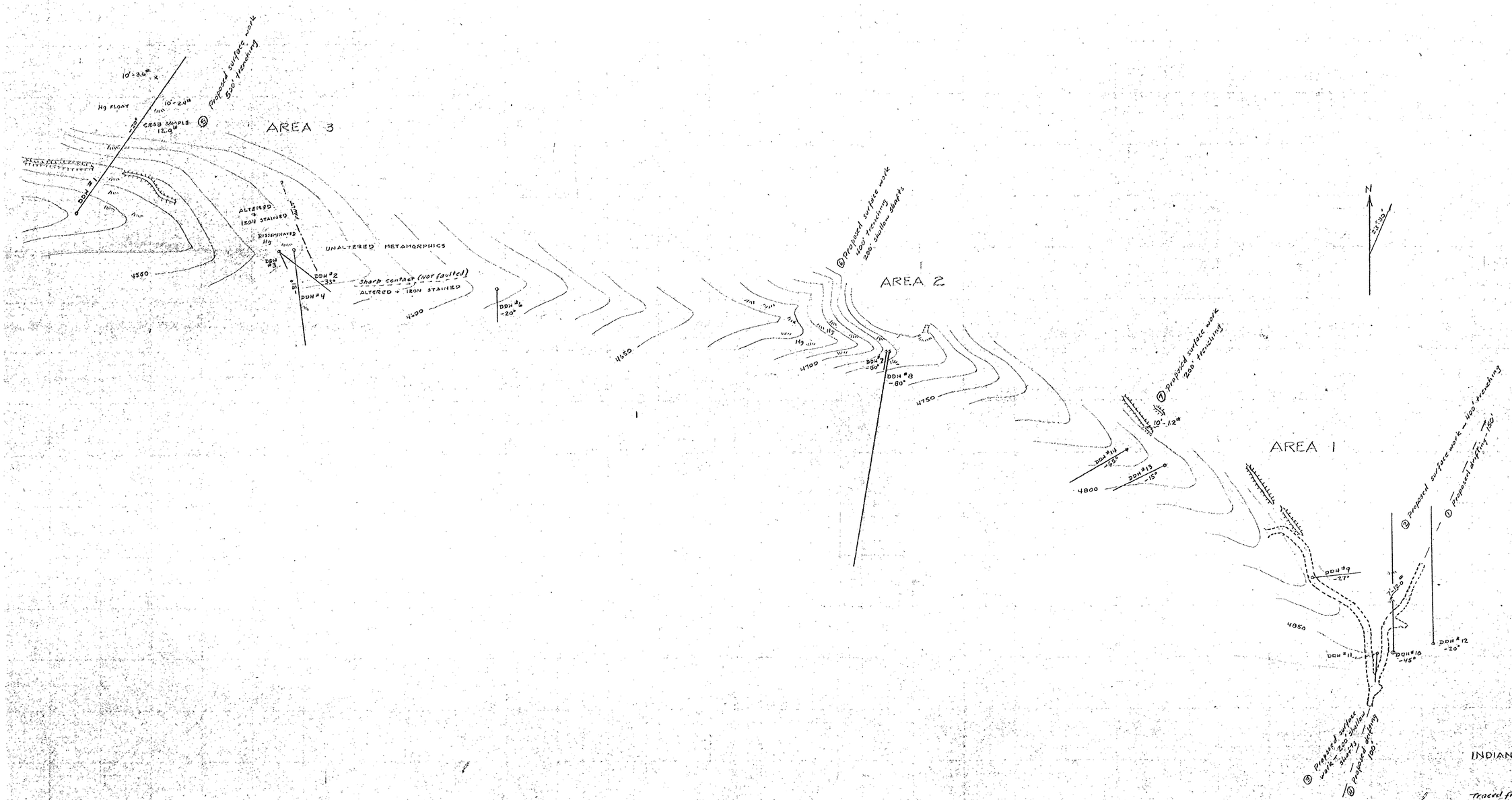
PLAN MAP OF ADIT ON DENNY RAY CLAIM, INDIAN CREEK MERCURY MINES, INCORPORATED
R. 12 E., T. 14 N., YAKIMA COUNTY, WASHINGTON



INDIAN CREEK MERCURY MINES, INC.
RIMROCK, WASH

1" = 20'

10/23/54
C.F.H.



INDIAN CREEK MERCURY MINES, INC.
RIMROCK WASH

Traced from mine map
1" = 50'

10/23/54
Charles F. Herbert