DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 2902

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To:	Open Com	Date	4-3-53
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To:	Open Com	Date	7-22-53
To:	Code 400	Date	7-23-53
To:	Open Com	Date	9-18-53
To:	Code 400	Date	9-21-53
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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
NOV 3 1953

October 31, 1953

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

Re: Docket No. DMEA-2902 (tungsten)
Werdenhoff Mining Company
Valley County, Idaho

Dear Mr. Selfridge:

Enclosed is a memorandum from Howard B. Nickelson of the Survey and John A. Bowsher of the Bureau of Mines regarding the re-examination of the Werdenhoff and Red Bluff properties in Valley County, Idaho, for possible DMEA assistance.

You will note from previous memoranda on the subject the showings which the applicant proposed to explore do not, in our opinion, warrant Government assistance. And after going over the property with the field examiners, the applicant is convinced the Red Bluff and Werdenhoff properties do not merit assistance. Therefore, he is withdrawing his application as evidenced by the attached letter.

At the time of the examination of the Red Bluff and Werdenhoff properties, the team briefly examined a newly acquired property, the White Bluff claims, at the request of the applicant. The applicant plans on concentrating all his efforts on these claims, planning to mine float from the outcrop. The outcrop shows the presence of metamorphosed limestone which has been rather extensively mineralized by tungsten. As the surface exposures are very good, the operator does not feel that DMEA assistance would be required to explore it.

By DMEA Field Team, Region II

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

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures
cc: USBM (2)
Nickelson

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
NOV 3 1953

October 19, 1953

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nickelson, Geologist, U. S. Geological Survey, and John A. Bowsher, Mining Engineer, U. S. Bureau of Mines

Subject: Re-examination of the Werdenhoff application, Docket No. DMEA-2902 (tungsten), Valley County, Idaho

Mr. C. W. Mason, president of the Werdenhoff Mining Company, was contacted by telephone at Tacoma, Washington, for a revisit of his property to confirm the location of an adit; he stated in a letter dated August 24, 1953, that the Field Team geologist had missed it on the August field examination.

The writers contacted Mr. Mason, Dr. C. A. Terry, secretary of the Werdenhoff Mining Company, and other stockholders at the Red Bluff claims on the afternoon of October 3, 1953. No further dozing or exploration work had been done on this property so the writers could not further evaluate the property.

Mr. Mason acquired 3 or 4 claims from Mr. Wilbur Wiles, a local prospector, called the White Bluff claims on the north face of the mountain above Smith Creek near the junction of the Middle Fork and South Fork. Mr. Mason wanted the writers to visit these claims for a possible exploration application.

These claims were examined by the writers and the property was found to have possibilities as a scheelite producer. The scheelite is found in a 50-foot bed of contact metamorphic limestone striking N. 30° W. and dipping approximately 60° to the northeast. Mr. Wiles has traced the float for approximately half a mile which could mean quite a large potential ore body. The body could be diamond drilled to an advantage, but the operators plan to mine and mill the large boulder and float off the surface to expose the bedrock which will probably give more information than diamond drill holes. The bed affords possible open pit operations if the scheelite is uniformly distributed within the contact metamorphic limestone bed.

Mr. Mason does not plan to submit an application on this property because his planned mining program will prove the possibilities of an ore deposit.

The Werdenhoff tunnel which Mr. Mason said was missed on the August field examination was re-examined with no indication of scheelite. The Field Team geologist did examine the same adit during his first visit in August 1953.

Mr. Mason told the Field Team examiners to withdraw the application for any exploration on the Red Bluff and the Werdenhoff properties. He plans to concentrate his efforts on the White Bluff claims.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Nickelson

Thos
Al
Fred

From The Werdenhoff Mining Company
1712 South Tacoma Way, Tacoma 9, Wash.
&
Big Creek, Valley County,
Idaho.

October 17, 1953

D. M. E. A. 157 South Howard St.
Spokane, Wash.
Attention Mr. Kiilagaard.

Gentlemen:-

Messrs Nickelson and Bosher met us on the ground the fore part of this month and we agreed that the Red Bluff claims in their present state of development would not warrant a loan.

We spent an evening lamping the 30 or 40,000 tons of scheelite float on our White Bluffs claims to which we have just finished a road with our caterpillar tractor. This round had not come into my possession at the time I submitted our loan application. In present condition of road it takes an hour from the deposit to our Werdenhoff Mill. As there is about a two years run in sight without going underground we have decided to withdraw our loan application. A resubmission or amendment would be necessary to include the White Bluffs claims and we figure we can go it alone.

With best regards and thanks to you and Mr. Johnson. Will look forwardto seeing you at the mining convention this fall and will bring some samplesof this new strike for you. We can lamp it for half a mile.

The Werdenhoff Mining Company,

By
(C. W. Mason) President.

M-c

Copy to Mr. Frank A. Johnson
Washington, D. C.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
xxxxxxxxxxxxxxxxxx
No. 15; Howard Street
Spokane 8, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 20 1953

October 22, 1953

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

WSM

re: Docket No. DMEA-[illegible] (Tungsten)
Hermanhoff Mining Company
Valley County, Idaho

Dear Mr. Gallridge:

Enclosed is a memorandum from Howard E. Nickelsen of the Survey and John [illegible]. Bowsher of the Bureau of Mines regarding the re-examination of the Hermanhoff and Red Bluff properties in Valley County, Idaho, for possible DMEA assistance.

You will note from previous memoranda on the subject that showings which the applicant proposes to explore do not, in our opinion, warrant Government assistance. And after going over the property with the field examiners, the applicant is convinced the Red Bluff and Hermanhoff properties do not merit assistance. Therefore, he is withdrawing his application as evidenced by the attached letter.

At the time of the examination of the Red Bluff and Hermanhoff properties, the team briefly examined a newly acquired property, the White Bluff claims, at the request of the applicant. The applicant plans on concentrating all his efforts on these claims, planning to mine float from the outcrop. The outcrop shows the presence of metamorphosed limestone which has been rather extensively mineralized by tungsten. As the surface exposures are very good, the operator does not feel that DMEA assistance would be required to explore it.

By DMEA Field Team, Region II

Reviewed by
DMEA OPERATING COMMITTEE
11-16-53
(date)

[illegible]
(U. S. Geological Survey)

[illegible]
(U. S. Bureau of Mines)

[illegible]
cc: DEM (2)
[illegible]

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

October 19, 1953

Memorandum

To: DMEA Field Team, Region XI

From: Howard B. Nickelson, Geologist, U. S. Geological Survey, and John A. Bowsher, Mining Engineer, U. S. Bureau of Mines

Subject: Re-examination of the Werdenhoff application, Docket No. DMEA-2902 (tungsten), Valley County, Idaho

Mr. C. W. Mason, president of the Werdenhoff Mining Company, was contacted by telephone at Tacoma, Washington, for a revisit of his property to confirm the location of an adit; he stated in a letter dated August 24, 1953, that the Field Team geologist had missed it on the August field examination.

The writers contacted Mr. Mason, Dr. C. A. Terry, secretary of the Werdenhoff Mining Company, and other stockholders at the Red Bluff claims on the afternoon of October 3, 1953. No further dozing or exploration work had been done on this property so the writers could not further evaluate the property.

Mr. Mason acquired 3 or 4 claims from Mr. Wilbur Wiles, a local prospector, called the White Bluff claims on the north face of the mountain above Smith Creek near the junction of the Middle Fork and South Fork. Mr. Mason wanted the writers to visit these claims for a possible exploration application.

These claims were examined by the writers and the property was found to have possibilities as a scheelite producer. The scheelite is found in a 50-foot bed of contact metamorphic limestone striking N. 30° W. and dipping approximately 60° to the northeast. Mr. Wiles has traced the float for approximately half a mile which could mean quite a large potential ore body. The body could be diamond drilled to an advantage, but the operators plan to mine and mill the large boulder and float off the surface to expose the bedrock which will probably give more information than diamond drill holes. The bed affords possible open pit operations if the scheelite is uniformly distributed within the contact metamorphic limestone bed.

Reviewed by
DMEA OPERATING COMMITTEE
11-16-53
(date)

Mr. Mason does not plan to submit an application on this property because his planned mining program will prove the possibilities of an ore deposit.

The Werdenhoff tunnel which Mr. Mason said was missed on the August field examination was re-examined with no indication of scheelite. The Field Team geologist did examine the same adit during his first visit in August 1955.

Mr. Mason told the Field Team examiners to withdraw the application for any exploration on the Red Bluff and the Werdenhoff properties. He plans to concentrate his efforts on the White Bluff claims.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Dockat
Nickelson

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 2 0 1953

October 1[illegible], 1[illegible]

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

re: Docket No. DMEA-[illegible] (tungsten)
Berlenhoff Mining Company
Valley County, Idaho

Dear Mr. Gallridge:

Enclosed is a memorandum from Howard B. Nicholson of the Survey and John L. Bowsher of the Bureau of Mines regarding the re-examination of the Berlenhoff and Red Bluff properties in Valley County, Idaho, for possible DMEA assistance.

You will note from previous memoranda on the subject the showings which the applicant proposed to explore do not, in our opinion, warrant Government assistance. As after going over the property with the field examiners, the applicant is convinced the Red Bluff and Berlenhoff properties do not merit assistance. Therefore, he is withdrawing his application as evidenced by the attached letter.

At the time of the examination of the Red Bluff and Berlenhoff properties, the team briefly examined a newly acquired property, the White Bluff claims, at the request of the applicant. The applicant plans on concentrating all his efforts on these claims, planning to mine float from the outcrop. The outcrop shows the presence of metamorphosed limestone which has been rather extensively mineralized by tungsten. As the surface exposures are very good, the operator does not feel that DMEA assistance would be required to explore it.

By DMEA Field Team, Region II

Reviewed by
DMEA OPERATING COMMITTEE

_____
(date)

_____
[illegible] Geol. Survey
(U. S. Geological Survey)

_____
M. [illegible] Mead
(U. S. Bureau of Mines)

Enclosure
cc: U BM (2)
Lewiston

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

October 19, 1953

Memorandum

To: DMEA Field Team, Region II

From: Howard B. Nicholson, Geologist, U. S. Geological Survey, and John A. Boucher, Mining Engineer, U. S. Bureau of Mines

Subject: Re-examination of the Werdenhoff application, Docket No. DMEA-2902 (tungsten), Valley County, Idaho

Mr. C. V. Mason, president of the Werdenhoff Mining Company, was contacted by telephone at Tacoma, Washington, for a revisit of his property to confirm the location of an adit; he stated in a letter dated August 24, 1953, that the Field Team geologist had missed it on the August field examination.

The writers contacted Mr. Mason, Dr. C. A. Terry, secretary of the Werdenhoff Mining Company, and other stockholders at the Red Bluff claims on the afternoon of October 3, 1953. No further dozing or exploration work had been done on this property so the writers could not further evaluate the property.

Mr. Mason acquired 3 or 4 claims from Mr. Wilber Wiles, a local prospector, called the White Bluff claims on the north face of the mountain above Smith Creek near the junction of the Middle Fork and South Fork. Mr. Mason wanted the writers to visit these claims for a possible exploration application.

These claims were examined by the writers and the property was found to have possibilities as a scheelite producer. The scheelite is found in a 30-foot bed of contact metamorphic limestone striking N. 30° W. and dipping approximately 60° to the northeast. Mr. Wiles has traced the float for approximately half a mile which could mean quite a large potential ore body. The body could be diamond drilled to an advantage, but the operators plan to mine and mill the large boulder and float off the surface to expose the bedrock which will probably give more information than diamond drill holes. The bed affords possible open pit operations if the scheelite is uniformly distributed within the contact metamorphic limestone bed.

Mr. Mason does not plan to submit an application on this property because his planned mining program will prove the possibilities of an ore deposit.

The Vertenhoff tunnel which Mr. Mason said was missed on the August field examination was re-examined with no indication of scheelite. The Field Team geologist did examine the same adit during his first visit in August 1955.

Mr. Mason told the Field Team examiners to withdraw the application for any exploration on the Red Bluff and the Vertenhoff properties. He plans to concentrate his efforts on the White Bluff claims.

Distribution:
DMEA (Orig. & 3)
USGM (2)
Doubert
Nicholson

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : R. E. Adams, Chief, Oper. Control & Statistics Division, DMEA

DATE: October 28, 1953

FROM : Iron and Ferro-Alloys Division, DMEA

SUBJECT: Withdrawal of application
Docket No. DMEA 2902 - Tungsten
Werdenhoff Mining Company
Werdenhoff and Red Bluff claims
Valley and Idaho Counties, Idaho

A Field Team examination of the referenced property August 6 through the 8, inclusive, 1953, resulted in a recommendation that the above-docketed application for exploration assistance be denied. However the applicant, Mr. C. W. Mason, was not present during the examination and was therefore not satisfied that a thorough examination had been made.

The Operating Committee by letter of September 21, 1953, advised the Executive Officer of the regional DMEA Field Team that the application would be held in abeyance for a reasonable time to allow the Field Team to revisit the property with Mr. Mason.

Early in October 1953, Messrs. Nickelson and Bosher went over the property with Mr. Mason and convinced him that the referenced exploration program was not warranted. Accordingly, by letter of October 17, 1953, Mr. Mason requested the Field Team to withdraw the subject application.

The docket is transmitted herewith.

W S Martin

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

FILE COPY
SURNAME:

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

Rutledge
Martin

R. E. Adams, Chief, Oper. Control & Statistics Division, DMEA

October 28, 1953

Iron and Ferro-Alloys Division, DMEA

Withdrawal of application
Docket No. DMEA 2902 - Tungsten
Werdenhoff Mining Company
Werdenhoff and Red Bluff claims
Valley and Idaho Counties, Idaho

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Early in October 1953, Messrs. Nickelson and Bosher went over the property with Mr. Mason and convinced him that the referenced exploration program was not warranted. Accordingly, by letter of October 17, 1953, Mr. Mason requested the Field Team to withdraw the subject application.

The docket is transmitted herewith.

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

FARutledge:foc
10-28-53
cc: Docket
Code 400
Admr. Reading File

R.C.L. 10-28-53

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 23 1953

From The Werdenhoff Mining Company
1712 South Tacoma Way, Tacoma 9, Wash.
&
Big Creek, Valley County,
Idaho.

October 17, 1953

Area 2902

D. M. E. A. 157 South Howard St.
Spokane, Wash.
Attention Mr. Kiilagaard.

Gentlemen:-

Messrs Nickelson and Bosher met us on the ground the fore part of this month and we agreed that the Red Bluff claims in their present state of development would not warrant a loan.

We spent an evening lamping the 30 or 40,000 tons of scheelite float on our White Bluffs claims to which we have just finished a road with our caterpillar tractor. This ground had not come into my possesson at the time I submitted our loan application. In present condition of road it takes an hour from the deposit to our Werdenhoff Mill. As there is about a two years run in sight without going underground we have decided to withdraw our loan application. A resubmission or amendment would be necessary to include the White Bluffs claims and we figure we can go it alone.

With best regards and thanks to you and Mr. Johnson. Will look forwardto seeing you at the mining convention this fall and will bring some samplesof this new strike for you. We can lamp it for half a mile.

The Werdenhoff Mining Company,

By C. W. Mason
(C. W. Mason) President.

M-c

Copy to Mr. Frank A. Johnson ✓
Washington, D. C.

Being held until
F.T. makes new
examination

J.A.R.

Wait till we see whether the Field Team
writes to us about this. If not follow up
as outlined in our letter of Sept 21 to FT

10/26/53

Docket

IN REPLY REFER TO:

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

September 17, 1953

WSM

Memorandum

To: W. S. Martin, DMEA

From: T. P. Thayer, USGS

Subject: DMEA-2902, Tungsten
Werdenhoff Mining Company
Valley and Idaho Counties, Idaho

The conclusion of the examining geologist seems to be well supported by the evidence, and I agree that the application should be denied on the grounds that no worthwhile target has been shown.

T. P. Thayer

T. P. Thayer

Copy retained 400

IN REPLY REFER TO:

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

September 17, 1953

Memorandum

To: W. S. Martin, DMEA

From: T. P. Thayer, USGS

Subject: DMEA-2902, Tungsten
Werdenhoff Mining Company
Valley and Idaho Counties, Idaho

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T. P. Thayer

400

FILE COPY
SURNAME:

Rutledge
Martin
Selfridge
Johnson

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

Air Mail

SEP 21 1953

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

Re: Docket No. DMEA 2902 - Tungsten
Werdenhoff Mining Company
Werdenhoff and Red Bluff claims
Valley and Idaho Counties, Idaho

Dear Mr. Weissenborn:

This will acknowledge receipt of your letter of September 4, 1953, transmitting a field examination report on the referenced property by Howard B. Nickelson, Geological Survey.

After a review of this report, we concur with the Field Team's recommendation that the subject application be denied without prejudice.

At your suggestion, however, we will not write our usual letter of "denial without prejudice to the property" to the applicant at this time. The application will instead be held in abeyance for a reasonable time to allow the Field Team to revisit the property with Mr. C. W. Mason, convince him that a thorough examination was made, and obtain the results of any additional prospecting by the Werdenhoff Mining Company.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Approved:

J. H. Hedges

Member, Bureau of Mines (GCS)

A. R. Kinkel, Jr.

Member, Geological Survey (GCS)

Copy to: Docket
Field Team, Reg. 2
Adm. Read File
Code 400
Oper. Comm.
Mary Miller, USGS
R. W. Geehan, USBM

FARutledge/ls
9/10/53

9-21-53

Docket
mdt

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

September 1, 1953

Mr. C. W. Mason, President
The Werdenhoff Mining Company
3924 North 37th Street
Tacoma 7, Washington

Re: Docket No. DMEA-2902 (Tungsten)
Valley and Idaho Counties, Idaho

Dear Mr. Mason:

This will acknowledge receipt of your letters of August 10 and 24.

Our field man was in the Stibnite area during the first week in August on other business; however, as he was close to your property, and as it might be sometime before we could have another man available to visit that area, he decided to examine your property at that time hoping that he might contact either you or a representative of your concern to assist him during the examination. When he arrived at the mine, he found Mr. Jim Isom, a miner who appeared to be thoroughly familiar with the property, and who assisted him during the examination. Our field man reports that he mapped all the accessible workings rather carefully and that he cut samples from the vein in those areas where there appeared to be tungsten content. He has since written a report which has been forwarded to Washington, D. C., for further consideration.

If you do not believe that your property has been adequately examined, please inform us and we will make other arrangements for another examination. We hope, however, that another examination will be unnecessary as we feel that we have sufficient information on the property with which to appraise your application.

Sincerely yours,

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Nickelson

Copy retained 400

Docket

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
SEP - 8 1953

September 4, 1953

Mr. Ernest W. Ellis, Acting Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA ~~3924~~ 2902 (tungsten)
Werdenhoff Mining Company
Valley & Idaho Counties, Idaho

Dear Mr. Ellis:

Enclosed are four copies of a field examination report on the subject property, by Mr. H. B. Nickelson, U. S. Geological Survey, recommending denial of the application.

Mr. Nickelson calls attention to the spotty and low-grade tungsten mineralization of the applicant's property and to the unfeasibility of the proposed work in Project No. 1. He notes that if further work is done on Project No. 2, it may be possible to lay out a feasible exploration program which would give that part of the applicant's property an adequate test, but that it would be impossible to formulate an acceptable program at this time.

Recent correspondence with the applicant, Mr. C. W. Mason, indicates that he is not satisfied at not having been present when the examination was made. He states that Mr. Isom, who accompanied Nickelson during the examination, did not know where the tungsten was. It may, therefore, be necessary to revisit the property to satisfy Mr. Mason that a thorough examination has been made. Such a visit would be made during one of our field examiner's routine inspections of the adjacent McRae Red Bluff contract.

The Field Team concurs with Nickelson and recommends denial of the application. It is suggested that either the Operating Committee's letter to the applicant state that the application will be reappraised if the applicant can produce evidence to substantiate such reappraisal, or else that no letter be written to the applicant until we can revisit the property with Mason to convince him that a thorough examination has

been made. In this way, we hope to be able to satisfy the applicant and to be able to consider our processing of the application as completed.

We will advise you of further information on this application as it becomes available to us.

By Field Team, Region II

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

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosure

cc: USBM (2)
Nickelson

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
SEP - 3 1953

9/17/53

Memorandum August 25, 1953

To: DMEA Field Team, Region II

From: Howard B. Nickelson, Geologist, U. S. Geological Survey

Subject: Field examination, Docket No. DMEA-2902, Werdenhoff Mining Co., Valley and Idaho Counties, Idaho, C. W. Mason, 3924 No. 37th Street, Tacoma 7, Washington

INTRODUCTION

The properties listed in the application as Project No. 1 and Project No. 2 were examined on August 6, 7, and 8, 1953, by the writer, who was accompanied by Mr. Jim Isom, employee and miner for C. W. Mason.

RECOMMENDATION

It is recommended that the application for Project 1 be denied for lack of sufficient amount of any tungsten minerals.

It is recommended that the application for Project 2 be denied until the applicant can expose sufficient evidence of a tungsten occurrence to warrant an exploration program.

LOCATION

Messrs. Bell and Smith have given the location of the property (Project 1) in Valley and Idaho counties, secs. 3 and 34; T. 21 N. and T. 22 N., R. 9 E. eastern meridian, as the fifth standard parallel crosses this property and the standard corner of secs. 33 and 34, T. 22 N., R. 9 E., is situated about 100 feet easterly of the camp building.

The property may be reached from Cascade, Idaho, the nearest important town, via the Stibnite-Cascade road to Profile Creek junction, which is $4\frac{1}{2}$ miles beyond Yellow Pine. The left-hand road at Profile Junction leads to Big Creek, a distance of 19 miles. Project No. 1 on the Werdenhoff mine is accessible by following the Big Creek road to Smith Creek Junction, a distance of $2\frac{1}{2}$ to 3 miles beyond the settlement of Big Creek, thence up Smith Creek for about 4 miles to a road that turns north to the mine, a distance of about 1 mile off Smith Creek Road. The property is approximately 100 miles from Cascade, Idaho.

The Red Bluff claims (Project 2) is in sec. 17 or sec. 18, T. 21 N., R. 9 E., in Valley County, Idaho.

These claims may be reached from the Werdenhoff mine by traveling up Smith Creek road to the vicinity of the Independence mine where a road leads down the South Fork of Smith Creek to within a quarter of a mile of the prospect.

The location cut of Red Bluff claim No. 9, shown on the enclosed map, is in the center of the claim which bears in a northerly direction. The Red Bluff No. 6 lies to the north, and Red Bluff No. 8 lies to the west of Red Bluff No. 9 claim.

ACCESSIBILITY AND CONDITION OF THE ROADS

All the roads into the area are snowbound from November to June. The mine roads are rough and steep and traverse boggy areas that are covered by corduroy. Four-wheel drive vehicles are best suited for these roads, but pickups and trucks can travel them.

APPLICANT'S PROPERTY RIGHTS

The unpatented claims are shown on a claim map submitted in the application for Project 1 and are owned by the applicant.

The Red Bluff claims--Nos. 5, 6, 7 (amended), 8, & 9--are controlled by a lease and option to purchase agreement. This lease and option to purchase agreement with the consent to lien agreement have been submitted by the applicant.

DESCRIPTION OF THE PROPERTY
PROJECT NO. 1

The surface facilities are a 25-ton mill that consists of the following equipment, all in very good shape: 1 Blake jaw crusher, 6 by 10 inches in size, 5 stamps, amalgamation plate, Butchart concentrating table, 60 HP diesel engine, piped water supply, and frame mill building. It is assumed that very little ore has been milled, this assumption being based on the absence of tailings, except for that scattered on the mill floor to a depth of about 6 inches, and the lack of wear on the crushing equipment.

Other surface facilities consist of an aerial tram in need of repair and sufficient log cabins in need of repair to house about fifteen men.

The Tramway adit and a small adit below the Tramway adit were accessible, and these two adits were examined for tungsten minerals.

The new adit to open the long crosscut at the mill was advanced about 90 feet last winter. The face is still in overburden.

PROJECT NO. 2

The only work showing on the Red Bluff No. 9 claim is a location cut in the creek which exposed the tungsten occurrence and a dozer trench 450 feet northwest of the cut. The outcrops exposed in the dozer trench were covered by slough from the steep banks. The enclosed map shows these workings.

GEOLOGY - PROJECT 1

The Tramway adit and the adit located below and to the south were lamped for scheelite but were found to be barren; no other tungsten minerals were observed.

Two quartz veins are exposed in the Tramway adit. The quartz vein just inside the adit has been extensively brecciated by post-mineral strike faulting. The second quartz vein strikes approximately at right angles to the brecciated vein and has been offset by several post-mineral faults. The vein, however, is exposed at the adit face.

Two samples were taken in the Tramway adit, one from the brecciated quartz vein and one from the vein at the adit face; both samples assayed "none." A company assay map of the property shows gold values of about $7 in the adit vein, and $3 to $4 in the vein at right angles to the adit vein. This map was not included in the application.

The objective of the adit below the Tramway adit is questionable as no quartz veins are to be seen in the workings.

The applicant's proposal to advance the lower adit 500 feet to crosscut reported and known tungsten-bearing veins is considered unfeasible. The veins explored by the Tramway adit have not contained any amount of tungsten mineralization and there is little reason to expect them to contain commercial amounts of tungsten at the projected position where they would be cut by the lower adit. There is, of course, the possibility of intersecting additional veins by the lower adit, but there is no surface evidence indicating they would be tungsten producers on this level.

GEOLOGY - PROJECT NO. 2

The veins exposed in the South Fork of Smith Creek contained some hubnerite, as illustrated on the enclosed map.

The occurrence is probably on the same structure found in the McRae mine located to the northwest on top of the adjacent mountain. Study of the drill logs on the McRae property indicates a similarity of the rock type and mineralization of the McRae deposit and the applicant's deposit.

The limited exposure in the location cut on Smith Creek presents complex geology. Apparently, the schist country rock was intruded by quartz-rich aplite and then penetrated by a series of parallel and crossing quartz veins in which are remanents of the schist country rock.

Some of the quartz veins are barren of any other minerals, but others are rich in pyrite with minor amounts of fluorite, hubnerite, muscovite and a grey unidentified sulphide mineral. The quartz-rich aplite seemed to predominate on the south side of the creek where it was cut by quartz veins.

The general trend of the steep-dipping quartz veins seems to be about N. 30 W.

The hubnerite occurs in the quartz veins as pods, blebs and lenses.

Hubnerite ore was piled on the side of the location cut and apparently some of this material was packed out on snowshoes last spring for a sample, as indicated by correspondence from Mr. Mason.

It was assumed by the writer that hubnerite piled at the side of the location cut came from the cut and, therefore, a 5-foot sample was taken across the bottom of the cut to test this exposure. The material in the sample did not compare with ore piled at the side of the cut, which indicated that the hubnerite may have come from a pod that was excavated by the cut. The sample yielded negative tungsten values, thereby confirming the spotty occurrence of the ore. Other hubnerite-bearing veins in the area are noted on the enclosed map; however, as their hubnerite content was low and spotty, they were not sampled.

This is more like what we want from the Field

The outcrops in the dozer pit were covered by slough so a sample was taken from the quartz scattered around the pit; one piece of quartz in the sample lamped scheelite. This sample assayed no WO_3.

The area between the cut in the creek and the dozer trench differs in elevation by 55 feet. The assumed elevations are shown after each station number on the enclosed map. The assumed elevation of Sta. 1 is 100 feet. The altitude of the prospect area is approximately 7,500 feet.

Exploration of the area between the cut and dozer pit would consist of a few dozer trenches to expose the veins and mining could only be accomplished from a shaft. If the veins continue northwest of the dozer cut, they can be explored by an adit into the steep mountain side.

The veins exposed in and near the creek contain such a limited amount of hubnerite that further exploration would be unwarranted.

Mr. Mason has stated in recent correspondence that he intends to do additional dozing on his Smith Creek property. If this dozing uncovers favorable evidence of a more promising tungsten-bearing property, the subject application might be reconsidered. Examination of this dozing should be done during routine examination of the adjoining McRae property.

Enclosure - 1

Distribution:
DMEA (3)✓
USBM (2)
USGS (SRO)
Docket
Nickelson

Maps with F.T. Report of 8/25/53

Dmea 2902 – Tungsten

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

OFFICIAL BUSINESS

DMEA-2902

Docket

From The Werdenhoff Mining Company
3924 North 37th Street,
Tacoma 7, Washington.

Tacoma, Wash. August 10, 1953

Mr. A. E. Weissenborn,
Executive Officer,
DMEA Field Team, Region 11,
South 157 Howard Street,
Spokane 4, Washington.

WSM

Dear Mr. Weissenborn:-

With reference to letter dated July 17 which I received from Mr. Frank E. Johnson, Acting Administrator, DMEA, Washington, D. C. advising that the Werdenhoff application had been referred to you for a field examination.

We have moved an RD 7 cat to the ground. Its first task was to plough out the bank sluff on our road to the Golden Cup where we have let a contract for some tunnel work on this wide gold-silver-copper deposit. We will then move the cat to the Red Bluffs claims, grade a connecting road to the deposit, which will take only about one day, then do some surface trenching with the cat between the creek and where the lode strikes up the mountain. It is about 500 feet from where the lode is cut in the creek to where the mountain rise starts. The overburden is not excessive.

If your field examination occurs the latter part of this month, we hope to have something worthwhile for your inspection.

The tungsten showing at the head of the Werdenhoff tramline above the mill will also require examination. Will advise you when I leave here from the camp and will appreciate any advance notice which you can give as to when your examination will start.

The Werdenhoff Mining Company

By C. W. Mason President (C. W. Mason.

Cop to FEJ ✓
M-c

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7/29/53

REFERRED TO:

1. Code 400 Room 3538
2.
3.
4.

FOR:

..... Action	..... Recommendation
..... Approval	..... Record of .....
..... Comment	..... Referring to .....
..... Conference	..... Reply for signature of .....
..... Consideration	..... Rewriting
..... Filing	..... Signature
..... Instructions	..... Suggestions
..... Investigation	..... Your information
..... Initials	
..... Mailing	
..... Previous correspondence	

REMARKS: .....

Check (X) before the items needing attention.

ilb

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

GE[illegible]
Defense Minerals Administration
RECEIVED
JUL 28 1953

From The Werdenhoff Mining Company
3924 North 37th Street,
Tacoma 7, Wash.

Tacoma, Wash. July 24, 1953

File
WSM

Mr. Frank E. Johnson,
Acting Administrator,
DMEA,
Washington 25, D. C.

Dear Mr. Johnson:-

Thank you for your letter of the 17th instant from which I note that I will be contacted by the regional office in re an examination of my tungsten showings.

I made a trip over the snow - which is late this year - the last of June and packed out 145 lbs of samples sending 100 lbs to DECO for full determinative tests,

Left here again July 11 and took an RD 7 caterpillar tractor with blade to the property and will be in shape I hope to have some stripping done when my DMEA friends arrive on the ground. At least I hope they will prove to be friends.

I will send a copy of this letter to the Region 11 office and will stand by to afford every co-operation in my power.

With best wishes,

The Werdenhoff Mining Company

By C W Mason
(C. W. Mason) President

M-c

Copy to Mr. A. E. Weissenborn,
Executive Officer,
DMEA Field Team, Region 11,
South 157 Howard Street. Spokane, 4. Wash.

FILE COPY
Surname:

Martin
Selfridge
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON 25, D. C.

JUL 23 1953

Mr. A. E. Weissenborn
Executive Officer, DMEA Region II
South 157 Howard St.
Spokane 4, Washington

Re: Docket No. DMEA 2902 - Tungsten
Werdenhoff Mining Company
Werdenhoff and Red Bluff claims
Valley and Idaho Counties, Idaho

Dear Mr. Weissenborn:

Reference is made to our letter of July 17, 1953, requesting that a field examination be made of the above-referenced claims.

Enclosed are two copies of a memorandum prepared by D. M. Lemmon, U. S. Geological Survey, pertaining to the subject docket.

Sincerely yours,

George C. Selfridge

(2NB)

Chairman, Operating Committee

cc. to: Docket
Field Team, Reg. II
Adm. Reading File
Code 400 (2)
Oper. Comm.
D. M. Lemmon, USGS
R. W. Geehan, USBM

LSeett/jh
7/21/53

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines (2NB)

A. R. Kinkel, Jr.

Member, Geological Survey (2NB)

R.C.S.
7-23-53

Docket

IN REPLY REFER TO:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 1 7 1953

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

MEMORANDUM

July 16, 1953

WSM

TO: W. S. Martin, DMEA

FROM: D. M. Lemmon, USGS

SUBJECT: Exploration application
Werdenhoff Mining Co.
Big Creek, Valley Co., Idaho

DMEA 2902
Tungsten

The Field Team, Region II, has been unable to obtain a well-prepared application from the Werdenhoff Mining Co. despite conferences and correspondence. No evidence is presented that the property is a tungsten prospect or that the rehabilitation under way is warranted.

Inasmuch as the Field Team will make periodic inspections of the nearby McRae properties this summer, I suggest that we request an examination of the Werdenhoff property, at the Field Team's convenience.

D.M. Lemmon

cc: Martin (3)

7/15 sent to F.T. for [illegible] & G.S. initialed

Copy retained 400

FILE COPY
SURNAME:

Rutledge
Martin
Geehan
Lemmon
Selfridge
Hodges

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

JUL 17 1953

Mr. A. E. Weissenborn
Executive Officer, DMEA Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 2902 - Tungsten
Werdenhoff Mining Company
Werdenhoff and Red Bluff claims
Valley and Idaho Counties, Idaho

Dear Mr. Weissenborn:

Reference is made to the subject application for exploration assistance, which is being referred to your office for a field examination.

As stated in your letter of June 30, 1953, considerable correspondence with the applicant and the receipt of a revised application have not yet clarified the proposed exploration program. Since further correspondence will undoubtedly result in our receiving little additional data, the subject application is being referred to you for a field examination.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (2/15)

APPROVED:

J. H. Hodges
Member, Bureau of Mines (2/15)

A. R. Kinkel, Jr.
Member, Geological Survey (2/15)

cc: DOCKET
FIELD TEAM, REG. II
ADM. READ. FILE
CODE 400
OPER. COMMITTEE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

FARutledge/ls
7/15/53

R.C.S.
7-17-53

FILE COPY
SURNAME:

Rutledge
Martin
Geehan
Lemmon
Burrell
Jeffrey
Hodges

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

JUL 17 1953

Mr. C. W. Mason, President
Werdenhoff Mining Company
3924 North 37th Street
Tacoma 7, Washington

Re: Docket No. DMEA 2902 - Tungsten
Werdenhoff Mining Company
Werdenhoff and Red Bluff claims
Valley and Idaho Counties, Idaho

Dear Mr. Mason:

Your application for assistance in exploring tungsten occurrences at the above-referenced properties has been reviewed by the Iron and Ferro-Alloys Division, Defense Minerals Exploration Administration, and has been referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II, South 157 Howard Street, Spokane 4, Washington, for a field examination.

The Regional Office will contact you at an early date with regard to an examination of your property. Any assistance that you can render the members of the field team during the examination will be appreciated.

Sincerely yours,

FRANK E. JOHNSON (B.D.N.)

ACTING Administrator

CC: DOCKET
FIELD TEAM, REG. II
ADM. READ. FILE
CODE 400
OPER. COMMITTEE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

FARutledge/ls 7/15/53

R.C.G. 7-17-53

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

June 30, 1953

Mr. C. W. Mason, President
The Werdenhoff Mining Company
3924 North 37th Street
Tacoma 7, Washington

WSM

Re: Docket No. DMEA-2902 (Tungsten)
Valley and Idaho Counties, Idaho

Dear Mr. Mason:

We are forwarding your exploration application to Washington today. It is noted that you state on your application that the operating agreement you have on the Red Bluff group of claims was to be attached to the application. We do not find this agreement. Kindly forward it to us immediately, and we will transmit it on to Washington.

It is also necessary to obtain an Owner's Consent to Lien before entering into an exploration contract when the property is not owned by the Operator. I am enclosing the necessary number of forms which you can have completed soon. It is not absolutely necessary that they be submitted immediately, but if your application meets with approval, these forms will be necessary before a contract can be awarded. Please return all copies to this office.

We note that the names of the Red Bluff claims are identical with a group of claims on which we now have a contract. These claims are owned by Wilbur Wiler and are leased to the McRae Tungsten Corporation. Is it possible that these claims are the same as those on which you have an operating agreement? We would appreciate an early answer to this question.

Yours very truly

Willard P. Puffett
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure
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

JUL - 6 1953

June 30, 1953

WSM

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

Re: Docket No. DMEA-2902 (Tungsten)
Werdenhoff Mining Company
Werdenhoff and Red Bluff Claims
Valley and Idaho Counties, Idaho

Dear Mr. Selfridge:

Enclosed are three copies of an application with attached maps submitted by the Werdenhoff Mining Company, 3924 North 37th Street, Tacoma 7, Washington, for an exploration project contract at the Werdenhoff Mine in Valley and Idaho Counties, Idaho. This company previously submitted completed copies of MF-103 and MF-100 which were forwarded to your office on February 12, 1953. It was brought to the applicant's attention that their original proposal was more in the manner of an application for a production loan, and it was suggested to them that they resubmit copies of forms MF-103, in which their proposed work would fall more in the category of exploration. This they have done on the enclosed forms.

The Werdenhoff property was first brought to our attention by Mr. Mason, President of the Werdenhoff Mining Company, at the Northwest Mining Association Convention in Spokane, December 5 and 6, 1952. Mr. Mason exhibited specimens of ore from the Red Bluff claims which contained considerable quantities of hubnerite. At the suggestion of a member of the Bureau of Mines, Mr. Mason sent these specimens to the Union Assay Office, Inc., Salt Lake City, Utah, for tungsten assays. As stated in the application, these specimens yielded assay results of 4.74 and 55.3 percent WO_3. Apparently, on the basis of the assay results of these high-grade samples, the first application was submitted. Since that time, we have had considerable correspondence with officers of the company in an effort to find out specifically just what they want to do and to determine if this proposed work can qualify under the present DMEA program. The enclosed application is the ultimate result of such correspondence.

latest?

The following is an outline of the more important features of this application:

A. Proposed exploration work

1. Project No. 1

Rehabilitate 700 feet of tunnel, pay for 200 feet of tunnel presently rehabilitated, and extend tunnel 500 feet to crosscut a vein which has been exposed in upper workings. Only assay data submitted concerning this vein is for gold. How could we?

The rehabilitation of the tunnel has been contracted for $30.00 per foot. A total of 200 feet has been completed, and $3,032.00 is still due to the men who did the work.

The remaining 700 feet of tunnel is presumed to be accessible upon completion of the rehabilitation of the first 200 feet.

A labor contract for $20.00 per foot is proposed to drive the 500 feet of crosscut, the applicants furnishing power and air to the face.

2. Project No. 2

Open pit mine for mill tests on a wide quartz fissure with possible underground work during winter.

B. Other features of importance

1. Although it is not stated specifically, there is an inference in the application that the applicant believes he needs to contribute only ten percent of the exploration costs.

2. Apparently the applicant cannot or does not want to invest any actual cash money in the project. He expects to contribute his share of the cost from depreciation allowance on equipment plus supervisory salaries.

3. On April 20, 1953, the applicant submitted a report concerning the Werdenhoff Mining Company property by Robert N. Bell and Gordon C. Smith, geologists of Boise, Idaho. Copies of this report are being forwarded with this application. Please note that there is no mention of tungsten or evidence of tungsten mineralization in the report.

4. The applicant states he has an operating agreement to lease the Red Bluff claims No's. 1, 2, 3, 4, and 5. No agreement was submitted with the application and we are requesting that he furnish us with such agreement. Coincidentally, perhaps, these claims have the same names as those covered in DMEA contract Idm-E406, currently in effect with McRae Tungsten Corporation. We are now investigating to make certain that these two groups of claims are not identical, although we do not believe they are.

In view of the foregoing statements, we must reiterate the statement made in the transmittal letter with the original

application, namely, "The Werdenhoff Syndicate has prepared a fairly generalized application that is highly confusing." Because of the great amount of correspondence we have completed with the applicant in an effort to obtain a true picture of his plans, we do not feel that further inquiries from him other than for the operating agreement on the Red Bluff claims are justified. A field examination will be necessary to fully clarify questions we have concerning this application, and one could probably be arranged in conjunction with a routine inspection of the McRae Red Bluff project. We will not formally make arrangements with the applicant for such an examination though, unless specifically requested to do so by the Operating Committee.

Yours very sincerely

Willard P. Puffett

Willard P. Puffett
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures

cc: USBM (2)
Puffett

MF-103
(Revised April 1952)

RECEIVED

JUN 11 1953

U. S. G. S.
SPOKANE, WASH.

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
Participation (Government %) .....

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: The Werdenhoff Mining Company, an Idaho Corporation, with mining property at or near Big Creek, Valley County, Idaho, with business office mailing address at 3924 North 37th Street, Tacoma 7, Washington.

(*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 The Rainbow Group of 8 lode claims which have been surveyed for patent, Mineral Survey No. 3417, survey certified and approved Dec. 4, 1947 by office of Cadastral Engineer of U. S. Land Office at Boise, Idaho. 6 lode claims, Johnies Nos. 1 thru 6 and 8 lode claims Lucky Bug 1 thru 8, adjacent.

(*b*) State any mine name by which the property is known. The Werdenhoff Mining Company

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise The Company owns the land debt free & in addition has optg lease on lode claims Red Bluffs 1 thru 5.

(*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. We are the owner except as to the Red Bluff Group, optg lease att'd

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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Rainbow Nos. 1 thru 8, Book 12 P.455, B.74 P.589, B.74 P.(?), B.12 P.456, B.12 P.458, B.12 P.459, B.74 P.590, (No given for claim 8. Will procure later) See att'd

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 [illegible] to explore .....

.....

(*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 ..... days and be completed within ..... 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?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated ....., 195...

.....
(Applicant)

By .....

.....

.....

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

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

3. (f) C. W. Mason and wife and R. W. Thompson and wife who finally acquired title to the claims, deeded them to The Werdenhoff Mining Company in November, 1952 and since the southern boundary line of Idaho County and the northern bounday of Valley County passes through the property duplicate deeds were recorded, one at Grangeville November 21, 1952 in book 21 at page 608 Doc. 175092; and one at Cascade November 20, 1952 in book 28 page 590. These deeds convey to The Werdenhoff Mining Company all right title and interest, unincumbered, in the lode claims Rainbow Group claims 1 thru 8; in the Johnie Group claims 1 thru 6, and in the Lucky Bug Group claims 1 thru 8, or 22 claims in all.

4. Physical Description,-, This is fully covered in the Bell Smith report on file with you.
(b) There has been no past or current production. Some ore in sight but no reserves. See Bell Smith report.
(c) Geology, mineralization etc. covered in the report of Robert N. Bell and Gordon C. Smith which is in your possession. We add herewith a reconnaisance geologic map made last year by a capable geologist, which should be attached to the Bell-Smith report in your possession. Assays etc also with B.Smith report.
(d) This is partly covered in the Bell - Smith report. Since that report was made, the road has been completed over Profile Summit and this route rather than the one thru McCalla and Warren, is now used altho the latter is open. A new cut off is being graded into Yellow Pine which cuts out two mountain summits and shortens the distance 25 miles. Completion is expected this year and keeping roads open to railhead during the winter will beomce a matter of course. In fact during war years road was kept open from Stibnite to Cascade during winter. The Union Pacific Railroad is available at both McCall and Cascade. Cascade is on paved road 80 miles north of Boise. McCall is 108 miles north of Boise on same paved highway. Post Office point is Big Creek 7 miles from property where there is a landing field promoted some years ago by the writer, with co-operation of the Forest Service.
(d) Man power and material situation is good. Supplies are shipped in from Boise, Cascade or McCall. The present equipment consists of a mill equipped with Blake Crusher, grixxlies, Allis Chalmers ore feeder, 5 heavy (1,000 lb) Allis Chalmers stamps, overhead chain block for handling, amalgamation plate, Butchart concentrating table of largest size, 60 HP Caterpillar Diesel engine, standby steam engine and boiler, wire wound wooden water pipe buried below frost line, tapping North Fork of Smith Creek 1,000 feet distant, affords pressure water supply to mill and camp. Red Fir, jack pine and Western or Ponerosa pine in abundance for mine timbers or saw timber size.

5. The exploration project, - (a) State mineral etc. Tungsten is the mineral being explored for. A promising outlook exists in the No. 3 tunnel at head of mill tramline and on the Red Bluff claims under lease.
(b) The attached blue print outlines the work under way during past winter to open the Thunder Mountain working Tunnel No. 1. We expect to complete timbering thru the wash 200 feet, then take up old wood and strap iron track in the approx. 900 feet of working tunnel (AB), then complete crosscut to point C, until intersect lode in tunnel No. 3 at a vertical depth of about 432 feet, thence drift northerly on the lode to explore the tungsten showing. And, if then thought desirable, continuing crosscut to basic dike. Three miles up the main Smith Creek, which Creek is paralleled by a truck road (see approximate location noted on geologic reconnaisance map herewith) we expect to open pit where Creek cuts an impressive showing for a width of approximately 100 yards, then conditions continuing favorable, drift in on lode formation where same strikes up the mountain northerly at about 1/3 pitch so as to be under cover for winter work. Erect compressor house, framing shed and small bunk house near portal of tunnel so that work - if indications continue favorable may be pursued during the winter. This lode apparently strikes northerly and southerly dipping about 10 deg. off vertical to the west.
(c) Since we have the available equipment already at hand the work can start as soon as DMEA money is made available and should be completed within one year. Probably less.

5-(d) Optg experience and background of applicatn, etc. The applicant spent 18 years with the Northern Pacific Railway from day laborere to Chief under the General Manager at Tacoma, E. C. Blanchard, resigning to go to Alaska where he spent ten years mining and prospecting. In the period 1916 to, 1926 he acquired 11 lode claims, 3 millsites and a homestead at William Henry Bay Alaska which ground is patented and still in his possession. He planned and supervised the building of a dock for steamer landings at Wm Henry Bay, built 1-1/2 miles of 3 ft railway from Bay to mine and mill site, did 2,000 feet of drifting and 500 feet of stoping and raising developing a copper, gold, silver deposit, constructed a fifteen stamp mill and tapped a lake 4,400 feet distant with a high pressure 16 inch to 12 inch wire wound wooden water pipe line, developing about 350 KW under 425 foot head. The ground is patented and debt free but is inoperative as the g rade of ore and mining conditions encountered made profitable mining not practicable. In 1927 he entered the Big Creek Area, promoted and helped build the airport, borrowed from Mr. Rust and the Tacoma Smeltersome first class construction men and erected the present Werdenhoff Mill and 1200 feet of jibway aerial tram line the latter tapping three levels of the lode which will be developed as a part of this project. The other directors are men with some capital and sound general business experience.

6. Estimate of costs - (a) The project divides itself into two phases, 1st. completing the working tunnel at level of top of mill bunker (see blueprint) Independent contract was let last fall to timber two hundred feet of wash to re-open a 900 foot long working tunnel which latter is driven as a crosscut and is to be extended 500 feet to cut lode on its easterly dip. The contract for driving and timbering thru the 200 feet of washtorreopen the old working tunnel was contracted last fall to Messrs Evert Potter and J. P. Isom at an overall cost of $30 per foot. $2,968 has been advanced by us on this contract making the balance due when the job is completed next month, $3,032.00. This latter figure we are sking for under this application for exploration help. We will handle on force account as itemized hereafter, the rehabilitation of the 900 feet of working tunnel which will be rendered accessible when this timbering thru the wash is completed. We have not let the contract yet but Potter and Isom have indicated their willingness to contract the 500 foot extension of the working tunnel at a figure of $20 a foot we furnishing power and air to face they supplying powder, cap, fuse, drills, labor etc for actual tunneling. Therefore we incluse this phase of the work as a contract which figured at $20 a foot is $10,000. The second phase of contracting will be on the Red Bluff leased claims 3 miles up Smith Creek on road from the Werdenhoff Mill. The preliminary outside work continuing satisfactory - see force account covering this work herein elsewher itemized - we will wish to let a contract to drift north 600 feet on this wide lode 600 feet which work we think we can contract at $20 a foot on same terms as extension of the Werdenhoff working tunnel and crosscut, namely 600 feet of 6 X 7 working tunnel @ $20 a ft $12,000.
Contract to Ray G. Nissula, cat operator of Cascade, Idaho, to plow off sluff, grade sit for buildings and improve road 1,000.

6. (b) Labor, supervision, consultants. After completing on 1st project, the 200 feet of timbering thru the wash by Potter and Isom contract, we will by force account take up the old strap iron track in the 900 foot of working tunnel, clean up ditches and roof fall, laying 16 lb rail from portal to face thru the 200 foot of wash tunnel and 900 feet of working tunnel to the face of latter, where the contract extenion of 500 feet will begin. We will lay a two inch compressed air line for drills, a 3/4 inch water line, 8 inch Bloflex ventilation line with Buffalo Blower, provide mine ties and two mine cars. Supervision and consultants 25 days total $400. Labor 150 days at $12 $1,800. On 2nd project, Labor, supervision and consultants. Supervision and consultants part time during progress of force account work spread over 25 days $200. Labor 2 miners open cutting across 100 yard wide lode where exposed by creek 50 days at $14,72 $736., 1 truck and driver hauling mat'l to

6. (b) 2nd project. (cont'd) - to mill for test, 25 days at $15 a day $375. One man helping sort, sack and load 25 days at $12 a day $300. The foregoing work on the 2nd project proving encouraging we propose to equip for continuous work on thru the winter by erecting at proposed tunnel portal a log building 14 X 34 for blacksmith shop, compressor house and framing shed, with a 14 X sixteen annex to house caterpillar tractor. Also one log bunkhouse 14 X 20 to care for two shifts of miners during the winter. Labor, master carpenter 30 days at $16 total $480., Helpers 120 days at $12 a day $1,440.,

6. (c) Operating materials and supplies. 1st project. To condition, lay track, air and water lines etc thru 200 feet of wash tunnel and 900 feet of working tunnel to face where contract will take over, 1,200 yards or 9-3/5 tons of 16lb rail at $95 a ton $912., Track spikes, bolts and splices $60., 900 track ties at 15¢ each $135., 2,000 feet of 2 inch pipe at 27¢ a foot $540., 2,000 ft of 3/4 inch pipe at 11-1/2¢ a foot $230., On project 2, estimated materials are 3-1/5 tons of 16 lb mine rail at $95 a ton $304., Track spikes, bolts and splices $20., 300 track ties at 15¢ $45., 600 ft of 2 inch pipe at 27¢ a foot $162., 600 ft of 3/4" pipe at 11-1/2¢ a foot $69., Glazed sah, doors, hdwe, lbr, $150. Coal oil and gasoline $25. Coleman gas lamps and kerosene lamps $15., Water and fuel $25.

6. (d) Operating eq ipment to be purchased, rented etc. 1st project - To be purchased, two mine cars, 18 cu. ft. capacity, 18" guage, $367.84, 1,120 ft of 8 " Bloflex @ 45¢ a foot $504., No. 6 Buffalo Blower $200., 10 HP stat'y gas engine $200., Heavy duty Ingersoll Rand Jackhammer, with steel, jackbitts, hose, fittings and extras complete approx. $1,000. We have a slusher, valued at $1,200 which we will contribute to the job. Rental equipment consists of Ingersoll Rand latest type GR 105 Rotary Compressor, rental paid to Intermountain Equipment Company of Boise $164. a month. We may apply 90% of the rental payments if we decide to purchase this machine.

~~6. (c) Operating materials and supplies, 2nd project. 3-1/5 tons of 16 lb rail or 400 yds at $95 a ton $304., Track spikes, bolts & splices $20., 600 ft of 2" pipe for compressed air line to drills @ 27¢ a foot $162., 600 ft of 3/4 pipe for water line @ 11 1/2¢ a foot $69.,~~

6. (d) Operating equipment to be purchased, rented etc. 2nd project - To be purchased. I think we will be able to transfer mine car or cars from project 1 as work on the two projects is not likely to be prosecuted simultaneously. To be purchased and installed, 600 ft of Blofex @ 45¢ $270, No. 6 Buffalo Blower $200., 10 HP gas engine $200. Can probably also transfer air drill and equipment from first project to second project as needed. With adequate results from second project we would wish, before winter to acquire a No. 6 caterpillar tractor equipped for snow plowing so that road from Project 2 to Verdenhoff Mill may be kept open during the winter so that operations may continue without interruption. We will not here estimate the cost of such a cat but we think thru Intermountain Equipment Co. of Boise with whom we have pleasant business relationship, we will be able to obtain a reconditioned cat in first class shape with their guarantee, at a reasonable price. The compressor described in project 1 may be transferred to project two and the rental pro-rated on the two jobs. The $1,200 slusher owned by the Co. may also be so transferred. We own outright a Willys four wheel drive truck which we will transfer to this job as needed. I have consulted with the Kraus Motor Co. of Tacoma as to a fair estimate of value on this truck with its latest type motor. We place this value at $1,600. Our master carpenter owns a power wagon which is good for 5 ton loads. This wagon with driver will be available for the work if required. We do not include anything herein as may get by with our own truck.

6. (e) Rehabilitation and repairs. Project No. 1. The 110 foot long log bunkhouse, with double roof, shown in annexed picture, is well suited to the climate and

6- (e) Rehabilitation and Repairs. (Cont'd) and requires a thousand dollars in repairs. It needs jacking up and levelling, replacing sill logs with other logs or probably more practically with concrete post at ten foot intervals and plank instead of logs. Reflooring required. However if thought best this can be let go to the last but should be done before another winter. Considerable money could be spent to advantage insulating the mill exterior but this also is a task which should be left to the last to ascertain whether we will need a mill.

6- (f) New building, improvements, installations. Already covered in the foregoing.

6- (g) Miscellaneous. Cost of repairs and maintenance of operating equipment. The operator's equipment is in fair shipe and think if a customary 10% (in railroading it is now 15%) is added for supervision and tools that this sum will cover repairs and maintenance of operator's equipment, analytical work, accounting, workmen's compensation, employer's liability insurance and payroll taxes.

6- (h) Contingencies. Included in the above 10%.

7- (a) Yes, we think we can furnish our share.

(b) How? It is our idea that slusher, water supply, truck equipment, housing and kitchen equipment, road construction which we paid for etc will more than amount to our proportion.

Money. None unless necessary. Use of equipment owned by us. 10%, Other facilities furnished by us 90%.

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 June 9th, 1953

Applicant
THE WERDENHOFF MINING COMPANY

BY C. W. Mason
(C. W. Mason) President

ATTEST
C. A. Terry
(C. A. Terry) Secretary

Report on The Werdenhoff Mining Company
group of lode mining claims by
Engineer - Geologists Robert N.
Bell & Gordon C. Smith of
BOISE, IDAHO -

INTRODUCTION This report is made at the request of Mr. J. B. Mason, M. E. in charge of the group under consideration, and is made for the purpose of reviewing the geological conditions of the deposit, the present development, and an opinion concerning the future development, and the probable results to be obtained.

HISTORY - The discovery of these deposits dates back to the Thunder Mountain boom period of 1902 - 1905 when these rich surface ores were first discovered and created quite a sensation and the basis of company organization and the purchase of a fifty stamp mill and the grading of a foundation for its erection; but the machines for this plant remained scattered along the route to the mine when the boom busted and the installation was never completed.

DEVELOPMENT during the Thunder Mountain Boom - The development done on the property at that time included one 900 foot tunnel and several shorter tunnels. It is apparent however, that the operators failed to take into account the dip of the formations of the deposit, and in no case seem to have reached their objective. With the collapse of the Thunder Mountain Boom, this property was abandoned and lay idle for a number of years until it was taken up by the present owners.

PROPERTY * And status of claim titles - This property consists of twenty lode claims as shown in detail by Plat 1. This sketch is taken directly from a sketch furnished us by Mr. Mason and which we believe to be correct. (Interpolating note - Since this Bell - Smith report was made, Gordon C. Smith, the survivor of the partnership, an United States Mineral Surveyor, has surveyed 14 of the lode claims. Eight others are carriled under the usual method of approximate location but are to be surveyed by Mr. Smith during the year 1953) - We are advised by Mr. Mason that one half of the claims in this group are held under a proper lease and bond or option to purchase and that the additional one half and outlying claims are held by location by Mr. Mason and his associates. Our investigation covered no part of the title nor the option to purchase under which the present development is being carried on. (Interpolating note - Since this report was written unincumbered deed has been acquired covering the 20 claims herein reported on and two additional lode claims -)

LOCATION AND TRANSPORTATION - This property is situated on the east side of the drainage of the North Fork of Smith Creek in the Big Creek Mining District of Valley and Idaho Counties, Idaho, and is more specifically situated in Sections 3 and 34, Townships 21 and 22 North, Range 9 East, Eastern Meridian, as the 5th Standard Parallel crosses this property and the standard corner of Sections 33 and 34, Township 22 North, Range 9 East is situated about 100 feet easterly of the camp buildings. The nearest railway point is McCall, the terminal of a branch line of the Union Pacific, situated on Lake Payette about 80 miles southwest of this property. The road from McCall to the Independence Mine, which latter mine is situated a distance of six miles from this property, is a very well constructed automobile road maintained by the Forestry Service and in good condition for travel thruout the summer but blocked during the winter by deep snows, and all trucking must be done within five months, but may done at a reasonable cost during the summer months.

LOCATION AND TRANSPORTATION - (Concluded)

(Interpolating Note) -

The road from the Independence Mine to this property is now rough, and while passable to an automobile, is not desirable for trucking but could be made so at a very reasonable cost, when this operation justifies it. (At the time this report was written Mr. J. B. Mason of Seattle and C. W. Mason of Tacoma, now of Idaho, were partners. The property reverted to the owner on the bond but after the death of Mr. J. B. Mason, C. W. Mason recaptured it and it is now incorporated under the name of The Werdenhoff Mining Company and is debt free.) (The road has been improved) -

DESCRIPTION OF PROPERTY -

The property, consisting wholly of lode claims, is laid out on the steep western slope of Smith Creek Canyon, but the claims are so arranged as to embrace full millsites and campsite advantages, along the canyon bottom. The surface improvements consist of two sets of exceptionally well built log cabins in a good state of repair, and capable of accomodating a crew of thirty men with full camp equipment for this purpose, together with a good blacksmith shop and ample small tools for hand mining purposes. (Interpolating note) - (Since this report was written the owners have installed a 1200 foot jibway tramline tapping three levels,**********, have done 1,500 feet of underground development work, have constructed the pilot mill shown in accompanying photograph, have constructed a 14 ft by 34 foot blacksmith shop and framing shed at mill bunker level to open up the old Thunder Mountain 900 foot working tunnel and let a contract during the winter of 1952-3 to Messrs Potter and Isom to perform this work. An Ingersoll Rand latest type one drill Rotary Compressor, mounted on rubber and a slusher has been added to the hand equipment so that drilling may be done by air instead of with hand tools.)

GENERAL GEOLOGY - The claims are laid out in a solid contiguous block along the canyon slope covering the ore bearing zone for a strike length of a mile and a half, and for a width of more than one half mile, embracing a total area of about 400 acres. (Interpolating note - Since this report was written 2 additional valuable claims have been added so that present area is about 440 acres instead of 400 acres.) The property is traversed from end to end with a broad mineralized zone of shearing and fissuring in highly altered and silicified biotite granite striking about North 20 deg. East and South 20 degrees West, dipping to the east and at the eastern periphery of the broadest expanse of the Idaho Granite Batholith. The best ore course in this broad zone is accompanied at a distance of 100 to 200 feet with an intrusive dike of basic igneous rock that is oxidized and brown at the surface and will likely form into the diabase family, but its present development is too limited to determine its exact classification or age. It is unquestionable a class of intrusive that is a notable associate of some of the most prominent and deeply seated mineral deposits in Idaho. The formations immediately east of the zone graduate from granite into slatey granitic gneiss and siliceous mica schist. This is succeeded to the east by a broad belt or roof pendent of the Coeur D'Alene series of pre-Cambrian metamorphic sediments, predominantly the Prichard siliceous slate formations, which however are also associated with apparent equivalents of the famous ore bearing quartzites of the Coeur D'Alenes. This big mineralized zone is several hundred feet wide and is characterized across its full width by secondary silicification and banded segregations of well defined quartz veins along its strike which is North 20 degrees east and South 20 degrees west. These individual quartz filled fissures vary from a few inches up to ten feet in width, usually of hard white or brown stained quartz more or less oxidized and honeycombed along the better ore courses. There are also numerous ore bearing cross fissures that strike at right angles to the main ore course and should prove favorable points of intersection in the further development of the deposit for the localization of enlarged and high grade ore shoots. The best ore course so far developed is a quartz filled fissure varying from a few inches to several feet in width that has been opened by shallow surface pits and short crosscut tunnels at intervals thru a lineal extent of fully 800 feet in the best exposure, and appears for that entire distance to carry a pay streak of high grade ore and gives selected assay values thruout its length at the intervals at which it has been cut by shallow development, that run up to several hundred dollars a ton in gold.

GENERAL GEOLOGY - (Concluded) This interesting fissure at its broadest exposure in what is known as the Keystone Cropping is accompanied by a width of fully 100 feet of highly mineralized wall rock well seamed with small quartz veins, that may itself prove of milling grade and afford stoping ground of that width with deeper development.

DEVELOPMENT - The development of the property so far is comparatively limited and insufficient to give any tonnage reserves. The work done under the present management consists of two adit tunnel openings. Tunnel No. 1 is driven in on the vein for a distance of two hundred feet, disclosing an ore shoot with a maximum width of two feet which gives a cross-section value of $130 a ton in gold. From this tunnel a crosscut has been extended to the west 200 feet for the purpose of testing the ground for parallel ore courses. This crosscut is in well sheeted and silicified formation and at its face gives assay results of $3.50 a ton in gold. Sixty feet vertically above tunnel No. 1 the winze tunnel is driven in the vein a distance of 35 ft and has a winze sunk to a depth of 20 feet. This is old work and about 40 tons of ore of exceptional milling grade is piled at the portal. A surface sample from this dump gave $71.20 in gold. Tunnel No. 2 is 190 feet vertically above Tunnel No. 1 and 240 feet northerly measured along the strike of the high grade vein. It follows the vein approximately 30 feet then crosscuts 210 feet easterly for the porphyry dike on the east which it has not reached. About 25 feet vertically above Tunnel No. 2 the Cavanah Cut exposes the vein for a distance of 25 feet. A sample of selected pieces from this cut gave gold $410 a ton.

MINERALOGY - The mineralogy of the deposit is interesting, and indicative of the deep seated permanency of the values. As far as the shallow development has progressed the ore consists of a gray white quartz with banded segregations of brown oxidized and cellular quartz which constitutes the richest ore and frequently gives exceptional pans of very fine free gold, usually associated with a very heavy gray concentrate which is chiefly lead carbonate and sulphide that gives very high assay results in gold. The present development conclusively proves the existence of comparatively narrow shoots of high grade gold ore. It does not prove or disprove the existence of large bodies of milling ore which should be associated in this formation comparable to the other similar deposits of the district. Occasional specimens in the underground development disclose fresh crystals of galena, pyrite and chalcopyrite from which it is evident that the primary sulphides are at comparatively shallow depths and will prove to be a combination of the metallic sulphides mentioned, associated with high gold values. The presence of the copper mineral associated with the lead is indicative of deep seated permanency in such a strong fissured condition and intrusive dike association. It seems likely from preliminary tests already obtained that when more fully developed the class of ore to be expected can be reduced by established flotation methods to a very high grade shipping concentrate that will well justify truck haulage to a railway even from this somewhat remote district.

RECOMMENDATIONS - We recommend that before considering the deeper and more permanent development of this deposit that the present No. 2 Tunnel should be extended as a drift on the main ore course to a point under the northerly edge of the Keystone Blowout on the dip of the vein, and crosscuts run to fully expose the possibilities of this remarkable surface showing, and future exploration to be decided from the ore resources there disclosed. We recommend that development be concentrated on this main showing, leaving the lateral expression of this big ore zone for future consideration. This work, about 550 to 600 feet in length, varying with the dip, could doubtless be accomplished for approximately $15 per foot (Interpolation- This was in the year 1928) and may justify the installation of mechanical equipment for the further exploration of this zone at depth. (Interpolation - This mechanical equipment has been working during the winter of 1952 and 1953 opening up the Thunder Mountain Tunnel to crosscut at depth to the basic dike as recommended by Bell-Smith, next following.) This work should also include a crosscut to the basic dike in order to determine more fully its age relation to the ore and the possibility of an ore bearing contact vein.

OTHER MINES - This region is attracting the attention of very responsible mining people at this time.

OTHER MINES, Cont'd
and concluded - Smith Creek Placers - There has recently been brought to light on the Smith Creek Placers which cover the bed of Smith Creek from this big fissured zone for a distance of four miles to its confluence with Big Creek, rich placer gravel. A recent opening on this property to bedrock disclosed average gold values of $1.00 per cubic yard in both coarse and fine gold including one nugget of three ounces containing considerable quartz and valued at $55. (Gold at $20.67 a fine ounce instead of $35. as at present) These placer disclosures are exciting a keen interest in this district at this time and it is evident that one of the principal sources of these rich placers is the erosion of the big gold bearing fissure zone under consideration, and also from a parallel zone to the west known as the Independence Shear Zone which parallels the Idaho Zone at a distance of two miles.

Independence Mine - The Independence Mine is also one of the early day discoveries with a lot of shallow preliminary development disclosing an ore course 200 feet wide said to contain average values of $3.50 a ton. The Independence Zone is continuous to the south thru a succession of adjoining properties across the mountain spurs for a distance of ten miles. Several of these properties have attracted the attention of big capital and some flattering offers have been made for their permanent development, but due to the adverse attitude of thier owners in high prices and exacting terms the progress of this big zone which gives definite evidence of the justification of some big scale operations in mining and milling, has been retarded. However, due to neighboring results, the Independence at this time is under consideration by the Day family of Wallace, Idaho, the successful operators of the famous Hercules Mine. (Interpolation - C. W. Mason was told personally by Harry Townsend, former field geologist for Anaconda Copper Mining Company, that he, Townsend, had looked over the property for the Day interests and that they would have spent considerable money for development but that the 'high prices and exacting terms' (to quote Bell) of the owners, who demanded a large cash sum before allowing exploration to proceed, had killed the deal. The Day's were willing to pay if the development warranted, but refused to pay in advance).

Meadow Creek Mine - Another notable development mining enterprise of this section is situated on a similar shear zone in granite and intrusive dike associations that is 100 feet wide and is proven to a vertical depth of 500 feet and by shallower work for a length of a mile that is said to contain average values of $5 a ton in gold and is likely to prove the basis of a very large gold producing enterprise. This property is said to be the personal venture of Fred W. Bradley of San Francisco (Alaska Treadwell and Alaska Juneau fame) and is now being extensively equipped with heavy machinery for permanent development, which together with a large deposit of cinnabar ore in the same neighborhood seems a basis of great faith in the region by this operator.(Interpolation - Since developed into the great Stibnite Mine with its two million dollar electric smelter treating gold-silver-antimony-tungsten. Biggest producer of same during war years, in USA.) Hall-Interstate Mine - Another venture about 30 miles southeast of the last mentioned property is in the hands of the Bunker Hill & Sullivan Mining Company, and has been quite extensively developed during the past three years and discloses a handsome body of lead-silver-gold mineral up to 30 feet in width at a depth of 1,000 feet in a similar sedimentary and granite contact formation to the Idaho Gold. This latter property is being equipped at this time with a pilot mill having a crushing capacity of 100 tons a day and is expected to be in production within a few months.

CONCLUSION - In conclusion we consider that the present preliminary development on the Idaho Group amply justifies the further extension of the work above outlined, which work when completed should disclose an ore resource and additional information that will fully justify the financing of this enterprise on an extended scale.

(SIGNED) ROBERT N. BELL

GORDON C. SMITH

Dated at Boise, Idaho,
August, 1928 -

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

OFFICIAL BUSINESS

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

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~
No. 157 Howard Street
Spokane 4, Washington

May 1, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 4 1953

Mr. G. [illegible] Mason
3524 North 37th Street
Tacoma 7, Washington

Re: Docket No. [illegible]-2902 (Tungsten)
Werdenhoff Mining Company
Werdenhoff and Redbluff Claims
Valley County, Idaho

WSM

Dear Mr. Mason:

This will acknowledge your letter of April 20, 1953, enclosing seven pages of letters and a report on the property by Mr. Bell and Mr. Smith.

Enclosed are instructions and forms necessary for you to make application for exploration assistance at the Werdenhoff property. Please note that you should submit a map or sketch of the property involved showing a plan and cross section, if needed, of the present mine workings and the location of the proposed exploration work as asked to resolve that ore. You should clearly state the exploration work you propose to do. Do you propose to follow the recommendation outlined on the third page of the Bell-Smith report? If so, this work should be indicated on maps.

Consideration of your application will be facilitated if you submit as complete an application as possible.

We will retain the Bell-Smith letters and report in this office pending receipt of your completed application.

Yours very truly,

Harold Kirkemo
for A. L. Weissenborn
Executive Officer, DMA
Field Team, Region II

Copy received [illegible]

Enclosures
cc: USBM(2)
DMA(2)
Puffett

This is a
left-handed answer
to our letter to
FT of April 3

WBM

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

April 16, 1953

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

WSM

Re: Docket No. DMEA-2902 (Tungsten)
The Werdenhoff Mining Company
Valley and Idaho Counties, Idaho

Dear Mr. Selfridge:

Reference is made to your letter of April 6 in which you request further information concerning data requested of Mr. C. W. Mason, the subject applicant.

On March 16 we received a letter from Mr. Mason in which he stated that he was principally concerned in obtaining Governmental assistance to develop known ore bodies rather than to conduct an exploration program. Mr. Mason also stated that he was enclosing copies of reports on the Werdenhoff property by Mr. Robert N. Bell and Gordon C. Smith. However, these reports were not enclosed with his letter. Presumably, the reports covered much of the information requested from Mr. Mason. We have since written Mr. Mason informing him that the reports were not received, and again pointing out the difference between a production loan and an exploration contract. We have again informed him that he should either amend his application to include exploration or else make application for a production loan. We have advised him, however, of the difficulty in obtaining production loans on tungsten properties.

Any further information received from Mr. Mason on the subject application will be forwarded upon receipt.

Sincerely yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM (2)
Puffett

Copy retained 400

FILE COPY
SURNAME:

Rutledge
Martin
Selfridge
Weissenborn

400

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

APR 6 1953

Air Mail

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

Re: Docket No. DMEA 2902 - Tungsten
The Werdenhoff Mining Company
Werdenhoff and Red Bluff claims
Valley and Idaho Counties, Idaho

Dear Mr. Weissenborn:

Reference is made to the subject docket and your letter of February 12, 1953, transmitting the referenced application for exploration assistance.

It will be appreciated if you will advise us whether you received from Mr. Mason the data which you requested, according to the above letter.

Sincerely yours,

J.H. 4/6/53

George C. Selfridge

Chairman, Operating Committee (JHB)

Approved:

J. H. Hedges (JHB)

Member, Bureau of Mines

A. R. Kinkel, Jr. (JHB)

Member, Geological Survey

cc: Docket
Field Team, Region 2
Code 400
Admn. Read. File
Operating Committee
R. W. Geehan, USBM
D. M. Lemmon, USGS

FARutledge/hhb
4/1/53

February 26, 1953

Mr. C. W. Mason, President
Werdenhoff Mining Company
3924 N. 37th Street
Tacoma, Washington

DMEA-2902
Subj: Exploration Assistance
Werdenhoff Property

My dear Mr. Mason:

The receipt of your application dated December 22, 1952 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2902 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2902 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation Control
and Statistics Division

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

February 26, 1953

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-2902 Werdenhoff Mining Company

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

33980

dmea 2902

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

February 12, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1953

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

Dear Mr. Selfridge:

Enclosed are three copies of Form MF-103 and Form MF-100, submitted by the Werdenhoff Syndicate, whose property is in Valley County, Idaho. One copy of both forms has been retained at this office to facilitate a field examination.

The Werdenhoff Syndicate has prepared a fairly generalized application that is highly confusing. Moreover, there are no maps to indicate the property or where the work is to be done. For this reason we are writing Mr. C. W. Mason, an officer of the Syndicate, for further information which will be forwarded upon receipt. Although the application is poorly prepared, we are forwarding it in its present condition rather than retain it here for we doubt that the applicant will be able to supply all of the information needed. It will be noted that the applicants live in Tacoma, Washington, whereas the property is in Valley County, Idaho. There is also reason to believe that the applicants are businessmen and know little or nothing about mining operations. We therefore believe that this situation will not be clarified until a field examination is made, which probably won't be until late June or July.

can't

It will be noted that the applicant has confused an exploration contract with a production loan. In our letter to the applicant we have attempted to clarify this difference and we therefore suspect that the work he may originally do will differ considerably from what he has proposed in this application.

Sincerely yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1953

Not To Be Filled in by Applicant

Docket No. dmea 2902
Mineral
Date Received 2-20-53
Amount $
Participation (Government %)

THE WERDENHOFF MINING COMPANY
Big Creek, Valley and Idaho Counties, Idaho.
Address correspondence to Tacoma office 3924 N.37th St.Tacoma, Wash.

Name and address of applicant

Date December 22, 1952

If you have already filed MF-100, give date filed December 22,52, type of assistance requested loan, repayable from proportion of net smelter returns

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract.

2. (*a*) What metals or minerals do you expect to find?

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

THE ERDENHOFF MINING COMPANY
(Name of company)

By C. W. Mason
(Signature of authorized official)
(C. W. Mason, Pres. & Manager)

December 22, 1952
(Date)

C. A. Terry
(Title)
(Dr. C. A. Terry, Secretary)

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—64067-2

The Werdenhoff Mining Company
Big Creek, Valley County,
Idaho
---ooOoo---
Tacoma Address, 3924 North
37th Street, Tacoma 7, Wash.

December 22, 1952.

Defense Minerals Administration
South 157 Howard Street,
Spokane, Washington.

Gentlemen:-

The above named Company applies for development assistance or co-operation as outlined in your amended instructions MO-5.

(1.(a) Attached is patent survey map prepared by Gordon C. Smith United States Mineral Surveyor, 105 Court House, Boise, Idaho covering the claims on which one deposit occurs. The Company owns 14 more lode claims which are in process of being surveyed for patent during the coming season. (b) and (c) We are the owners in fee simple of the property. The aerial tram line, 1,200 feet long leading from mill to tunnel in which tungsten showing occurs is indicated on maps and inclosed photograph of mill and camp.

The second or other area to be explored consists of 5 lode claims named Red Bluffs Nos. 1, 2, 3, 4, and 5 located 4 miles west of mill on Smith Creek, east of the McRae property recently investigated and loans allowed by DMA.

(2)(a) Tungsten is the mineral already discovered at both of the locations in question.

(b) The geology of the deposits may be briefly described as favorable dike associations, pre-Cambrian sediments with a broad mineralized zone of shearing and fissuring in highly altered and silicified biotite granite striking northerly and southerly at the astern periphery of the broadest expanse of the Idaho Granite Batholith. There are also numerous ore bearing cross fissures that strike at right angles to the main north and south ore course. The intersection points are deemed favorable for the localization of enlarged and high grade ore shoots.

(signed) THE WERDENHOFF MINING COMPANY

BY C. J. Lawrence

(C. J. Lawson, Pres. & Mgr.)

C. A. Terry

(Dr. C. A. Terry, Secretary)

Application for Aid
Mineral Order 5, under
Defense Production Act
of 1950 -

3. (a) Project No. 1, distant 1,200 feet up the mountain in easterly direction from mill and at head of tram line shows in tunnel what appears to be a body of tungsten ore over a lineal distance of 100 feet, striking northerly and southerly and dipping about 45 deg. east. Width about four feet from bottom of tunnel to hanging wall but not known yet to what width it will continue below floor of tunnel.

About 130 feet vertically under this tunnel is another tunnel which with 100 feet of extension and crosscutting should intersect this deposit on its dip, thus affording considerable stoping backs.

These tunnesl are about five houndred feet vertically above the mill so there is great room for development of gravity pre run and stoping.

(b) The camp is now stocked for winter work and the low level tunnel, at mill bunker level, is being made accessible. 3,490 pcs of lagging, 100 posts, 50 caps, 50 sills, 100 girts have been assembled for drifting thru 200 feet of wash as old work was permitted to cave. This will open an old working tunnel 900 feet in length which has been surveyed by writer and stands without timbering. An extension, 500 feet, of this tunnel will cut the easterly dipping north and south lode, affording over a thousand feet of stoping backs for gravity flow to mill bunkers. We expect to complete the retimbering through the wash this winter. It will then be necessary to take up the old timber and strap iron track and relay with mine steel which we have on hand. It is then proposed to let contract to drive an extension of 500 feet to intersect the lode on its easterly dip and develop the backs referred to above. The equipment is on hand to prosecute this work, which can be started at any time (the 200 feet of timbering thru wash is already financed) and by working 2 shifts can be completed in two months from time of commencement.

THE WARDENHOFF MINING COMPANY

BY C. J. Mason

(C. J. Mason, Pres. & Mgr.)

C. A. Terry

(Dr. C. A. Terry, Secy.)

3924 North 37th Street,

Tacoma 7, Washington.

Application for Aid
Mineral Order 5, under
Defense Production Act
of 1950 -

(4) The maps available are attached to Form MF 103 in answer to qeustion No. 1.

The general geology is also explained under 2 B.

THE MERDENHOFF MINING COMPANY

BY C. M. Mason

(C. M. Mason, Pres. & Mgr.)

C. A. Terry

(Dr. C. A. Terry, Sec'y)

3924 North 37th Street,

Tacoma 7, Washington.

Application for Aid
Lineral Order 5, under
Defense Production Act -
of 1950 -

(5) Itemized list of existing facilities, buildings, installations and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into use or operable condition -

(A) Mill building in good repair with 1200 foot long aerial jibway tram servicing upper tunnel in which tungsten showing discovered. 50 ton capacity Blake crusher, grizzlies, Allis Chalmers ore feeder, 5 Allis Chalmers stamps, 1,000 lb each Amalgamation plate, largest size Butchart concentrating table, Chain block and track above stamps, 60 hp semi diesel tractor engine belted to line shaft from which pulleys and belts serve crusher, stamps, table. 30 hp steam boiler. Blacksmith forge and tools. Track cables for tram are 1-1/4", haul back 3/4 inch. Mine cars, rails. Ingersoll Rand Rotary compressor mounted on rubber tired wheels, model Gr 105, new. One slusher good condition, second hand. Air drills and steel being furnished by our tunnel contractor Evert Potter, an experienced Anaconda Copper Co. former employee.

(B) One substantial bunkhouse 60 ft by 16 ft, good condition. One substantial bunkhouse 110 ft X 16 ft. Kitchen, one room and store room in usable condition. East bunk room requires new floor and some side logs require replacing. Usable as is.

(C) New log building and plank and corrugated iron at portal of low level tunnel size 14 ft by 34 ft to house compressor, blacksmith shop and framing shed. Blacksmith forge and tools.

(D) 1,000 lineal ft of wire wound wooden water pipe buried below frost line, tapping north fork of Smith Creek, leading to tank above mill, affording adequate pressure water in mill.

(E) A stable which could be put in good usable condition for some years by expenditure of $500.

(F) Six hole majestic range with kitchen equipment adequate for small crew.

(G) Axes, saws and some small tools.

THE [illegible]DEMKOFF MINING COMPANY

BY C. Mason
(C. [illegible] Mason, Pres. & Mgr.)

C. A. Terry
(Dr. C.A. Terry, Secretary)

3924 North 37th Street,

Tacoma 7, Washington.

Application for Aid
Mineral Order 5, under
Defense Production Act
of 1950 -

(6) Detailed list of additional facilities etc. Think we can get along on the preliminary development with what we have. Current supplies such as powder, fuse caps etc will have to be purchased as required. We are renting the CR 105 compressor from the Intermountain Equipment Company of Boise, Idaho, paying therefore $164 a month total purchase price towards which we have option of applying 90% of the rental, $3,546.40. We are buying a slusher on which we have paid $225 with $675 balance payable 30, 60, and 90 days, at rate of $225 a month. Since the mill equipment now consists of crusher, stamps, table; additional equipment should be added to make it an efficient medium for concentrating this tungsten ore. We are corresponding with the Denver Equipment Co. with a view to arriving at a cost figure for the necessary mill additions.

THE WERDENHOFF MINING COMPANY

BY C. W. Mason
(C. W. Mason, Pres. & Mgr)

C. A. Terry
(Dr. C.A.Terry, Secretary)

3924 North 37th Street,

Tacoma 7, Washington.

Application for Aid
Lineral Order 5, under
Defense Production Act
of 1950 -

(7) Detailed list of operating equipment, separated into items to be

(A) Rented. As explained in six we are renting from the Intermountain Equipment Company of Boise a GR 105 Rotary Compressor. Four monthly payments of $164 have been made, 90% of which, at our option, any time during the rental period, may be applied to the purchase price of $3,546.40. It is our intention to purchase the machine.

(B) We are purchasing a slusher for $900, having made one payment of $225. the balance being due in monthly payments of $225.each. Facilities as detailed in 5 and 6 will be furnished by us.

(C) We have available on ground, to be rented when required, a four wheel drive Willys jeep, a four wheel drive power wagon, a 3/4 ton Ford truck.

(D) We do not know what the depreciation should be on our owned items but would be guided by you as to what is customary.

The [illegible]HOFF MINING COMPANY

BY C. W. Mason

(C. W. Mason, Pres. & Mgr)

Dr. C. A. Terry

(C.A.Terry, Secretary)

3924 North 37th Street,

Tacoma 7, Wash.

Application for Aid
Mineral Order 5, under
Defense Production Act
of 1950 -

(8) Itemized schedule of labor, etc. Our present contract with Potter and Isom calls for working tunnel 6' X 7' at rate of $30 per foot, they furnishing everything. In open trenching on Red Bluff Claims 1 thru 5 rate for Potter and Isom would be $2 an hour including power wagon truck and tools. The rate for additional miners as paid at Stibnite is $14.72 for each 8 hour day. One the above claims one may drive in on the lode gaining one foot in backs for each two and one half feet driven until one thousand feet in backs is attained. On this tunnel work if undertaken, the rate per foot of working tunnel, everything furnished by Potter and Isom except rails and fastenings will be $30 a running foot of adit. It is suggested that $20,000 spent on preliminary development work and $30,000, spent to put mill in first class shape with additional equipment, electric diesel operation, would show an ore resource well warranting the expenditure. The development work of course to precede mill improvement. Situation as to water and timber is first class. No charge except for such improvements as may be determined. Cost of supervision, accounting, assaying and engineering placed at an estimated $500 a month.

THE MERDENHOFF MINING COMPANY

BY C. J. Mason

(C. J. Mason, Pres. & Mgr.)

C. A. Terry

(Dr. C. A. Terry, Secretary)

3924 North 37th Street,

Tacoma 7, Washington.

Application for Aid
Mineral Order 5, under Defense
Production Act of 1950 -

(9) This is pretty well covered as far as we can cover it, in preceding schedule No. 8. We are in the fortunate position of having capable men on the ground working thru the winter and able to tackle the big tungsten showing, samples of which we showed to Engineer Reno from Red Bluffs Claims one thru five, and of getting the work done, except as specified, by contract.

THE WERDENHOFF MINING COMPANY

BY C.W.Mason

(C.W.Mason, Pres. & Lgr)

Dr. C. Terry

(Dr.C.A.Terry, Secretary)

3924 North 37th Street,

Tacoma 7, Washington.

Form MF-103
Application for Aid, etc.

(10) (a)Q. How much are we prepared to invest in the proposed project?

Ans. Prior to the current year we expended in excess of $90,000. in the development of the property. During the current year we have expended in excess of $3,000 preparing for the winter's development work which is now proceeding. The property is debt free. We have an option to develop the five Red Bluffs claims 4 miles up the Smith Creek road east of the McRae property. The Creek crosses an impressive tungsten showing. Seems to be a massive body of 3% or better WO3. Have samples from inch thick stringers which assayed by Union Assay Office at Salt Lake City yielded 55.4% WO3. The massive lode run samples assayed 4.74% WO3.

The terms being discussed are that the owners of the 5 Red Bluff claims will protect title thereto and give the Werdenhoff Mining Company a lease to develop and operate the claims on a 50-50 split of the net, the Werdenhoff first deducting from the gross, agreed upon development costs. This lease to run at a minimum term equal to the period during which the Werdenhoff might be indebted to Defense Minerals Administration.

(b) It is our idea that our bringing the above facilities and option to the task more than covers the 1/4 proportion of applied for aid. If ruled otherwise we will consider the matter further and either meet the DMA requirements or go ahead on our own.

THE WERDENHOFF MINING COMPANY

BY [illegible]
President & Manager

C. A. Terry
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Application for Aid
Mineral Order 5, under
Defense Production Act
of 1950 -

(11) We think of no conditions or circumstances not brought out in the foregoing 10 sections.

THE WERDENHOFF MINING COMPANY

BY C. W. Mason

(C. W. Mason, Pres. & Mgr)

C. A. Terry

(Dr. C. A. Terry, Secretary)

3924 North 37th Street,

Tacoma 7, Washington.

C
O
P
Y

The Werdenhoff Mining Company
3924 North 37th Street,
Tacoma 7, Washington.

January 22, 1953

War Defense Minerals Administration,
Spokane, Washington.

Gentlemen:-

I inclose two pictures of Werdenhoff Mill and camp so that one each may be attached to MF 100 and MF 103 processed by us and sent to you separate cover.

Mr. Reno having inspected the Mc Rae property will know the location which is down Smith Creek east of Mc Rae's.

With best regards.

THE WERDENHOFF MINING COMPANY

By /s/ C. W. Mason

PRESIDENT

(C. W. Mason)

M-c

S. BUREAU OF MINES
RECEIVED
JAN 23 1953
SPOKANE, WASHINGTON

From The Werdenhoff Mining Company
3924 North 37th Street,
Tacoma 7, Washington.

Tacoma, Wash. Jan'y
22, 1953

War Defense Minerals
Administration,
Spokane, Washington.

Attention
Messrs Reed & Reno

Gentlemen:-

As suggested by Messrs Reno and Todd when we discussed the matter at the Northwest Mining Convention at Spokane December 5 and 6, we inclose herewith our application for contributing funds to aid in the development of our tungsten deposits in the Big Creek area, Valley and Idaho Counties, Idaho.

Forms MF 100 and MF 103 have been filled out to the best of our ability. We attache to each form a photograph of the Werdenhoff Mill & camp.

The ore from our leased five claims up Smith Creek which was viewed by Messrs Reno and Todd, was sent as per their suggestion to the Union Assay Office at Salt Lake City. The return from the mass material was 4.74% WO_3 and from the high grade 55.3% WO_3.

If this application has merit in your eyes we will be pleased to hear from you.

With best regards in which Messrs Teery and Nordi, my associates, join.

Yours truly,

THE WERDENHOFF MINING COMPANY

BY [signature]
President
(C. W. MASON)

M-c

Werdenhoff Mill & Camp

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 20 1953

NOT TO BE FILLED IN BY APPLICANT

Docket No. dmea 2902

Date received 2-20-53

THE MERDENHOFF MINING COMPANY
Big Creek, Valley County, Idaho.
Address correspondence to Tacoma office 3924 North 37th Street, Tacoma 7, Washington

Name and address of applicant

Date 12-22-1952

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is a corporation.

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
[illegible]	President (d)	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible] (d)	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible] (d)	[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
	Total	[illegible]	x x x x x	[illegible]		x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ [illegible]	$ [illegible]	$ [illegible]	[illegible]	0
Preferred stock	$ [illegible]	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

U. S. BUREAU OF MINES
RECEIVED
JAN 23 1953
SPOKANE, WASHINGTON

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved) None					
Indicated (probable) Don't care to guess but looks very big					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads. 85 miles to McCall 85 miles to Cascade, Idaho. Good mountain roads. Last five miles rough.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year. From Smith Creek. Ample year around.

15. Power:

State amount of power used, rate per hour, and source thereof. Tractor semi diesel about 30 DHP

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period. Just finished buying property. $5,000 contract under way this winter.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. Itemized form M-103

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

[illegible] MINING COMPANY
(Name of company)

By [illegible]
Pres. & Mgr
(Signature of authorized official)

December 22, 1952
(Date)

C. A. Terry
(Title) Secretary

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—63792-1

From M-100
General Technical Data

1. Materials oriduced. None. Expect to produce tungsten also gold with silver and copper by-products.

THE WERDENHOFF MINING COMPANY

BY [signature]
President & Mgr

[signature]
Secretary

3924 North 37th Street,

Tacoma 7, Washington.

Form M-100
General Technical Data

2. Name and type of Mill. Crusher, ore feeder, 5 stamps, amalgamation plate, Butchart concentration table

(a) Shafts, 20 feet

(b) (c) drifts, crosscuts, tunnels and adits 3,000 lineal feet.

(d) raise, 80 feet.

THE MERDENHOFF MINING COMPANY

BY [illegible]
Pres. & Mgr

C. A. Terry
Secretary

3924 North 37th Street,

Tacoma 7, Washington.

From M-100
General Technical Data

3. 85 and 88 miles respectively from mine to McCall and Cascade on ~~(ba)~~ (a) Union Pacific Railroad. A cutoff road is being completed which will shorten the distance 25 miles and cut out two mountain summits.

(b) Big Creek Mining District, Valley and Idaho Counties, Idaho.

(c) Tp 22 N Range 9 E and Tp 21 N. Range 9 E. The north boundary line of Valley County and south boundary line of Idaho County, traverses the property from east to west.

(d) Valley and Idaho Counties, Idaho.

THE WERDENHOFF MINING COMPANY

BY [illegible]
Pres. & Mgr

C. A. Terry
Secretary

3924 North 37th Street

Tacoma 7, Washington.

Form M-100
General Technical Data

4. (a) The camp is stocked for the winter and a $6,000 contract to Messrs Potter and Isom is in process to open up the low level tunnel on level with top of mill bunker.

(b) We, the owners of the property have let this working contract to Potter and Isom.

THE MERDENHOFF MINING COMPANY

BY [illegible]
Pres. & Mgr.

C. A. Terry
Secretary

3924 North 37th Street,

Tacoma 7, Washington.

From M-100
General Technical Data

5. Number of years in production. None. Development only

If money available expect to produce in 1953.

THE MERDENHOFF MINING COMPANY

BY [signature]

Pres. & Mgr

[signature]

Secretary

3924 North 37th Street,

Tacoma 7, Washington.

Form M-100
General Technical Data

6. Experience of operators. (a) (b) The Pres and Mgr had 18 years training in corporation management and organization. 24 years experience in Alaska, British Columbia, Nevada, Washington California constructing camps, mills, wharves, organizing and managing same. The directors are men of mature general experience in business and finance.

THE WERDENHOFF MINING COMPANY

BY C. Thomason
Pres. & Mgr

C. A. Terry
Secretary

3924 North 37th Street,

Tacoma 7, Washington.

COPY

Form M-100
General Technical Data

7. History. The discovery of this property dates back to the

(a) days of the Thunder Mountain Boom 1903-5 when these rich deposits attracted wide spread attention due to their high gold content. The scheelite occuring in the ore was then thought to be lead carbonate as operators generally in that day and age does not regard very highly anything which did not show yellow in the pan. Many thousands were spent on development and a site was graded, a fifty stamp mill purchased but the boom busted, the mill machinery never reached the property and due to poor transportation (which has since been improved) the property remained inactive until in 1945 it was acquired by the present group.

(b) The Snowshoe Mine about 20 miles down Big Creek from this property produced considerable gold and silver but was badly handicapped by terrible roads and is now shut down. The Stibnite Mine and Smelter of the Bradley interest is 12 air line miles to the south. The recent development fronted by Bob McRae, which has been favored by a loan from your dep't is about 4 miles to the west.

(c) Property was favorably reported upon by the late Robert N. Bell and Gordon C. Smith. Mr. Smith is the present County Surveyor at 105 Court House, Boise, Idqho.

THE MERDENHOFF MINING COMPANY

By [illegible]
Pres. & Mgr

C. A. Terry
Secretary

3924 North 37th Street,
Tacoma 7, Washington

COPY

Form M-100
General Technical Data

8. Name and addresses of Officers, Directors, Partners, and in addition thereto, the five largest stockholders if applicant is a corporation. (f) none

(a) Names and Addresses	(b) Official Title (D) if director also	(c) Sal. Comms etc	(d) Est. worth	(e) sh. held	(g-h) Ins.
Mason, C. W.	Pres. & Mgr (D)	none so far	$35,000.	15% of cap.	None
Terry, Dr. Clayton A.	Sec'y-Treas. (D)	Do	$40,000.	1/4 of 1% of cap.	Do
Nordi, Dr. Arthur E.	Ass't Sec'y (D)	Do	$40,000.	Do	Do
Thompson, R. W.	Stockholder	Do	$ ~~250,000~~. $ 250,000.	15% of cap.	Do
Lawler, George Ward	Do	Do	$ ~~100~~,000.	5% of cap.	Do
Routson, John W.	Do	Do	$ 5,000.	3/4 of 1% of cap.	
(Shares are par value 10¢)	TOTAL	None so far		36-1/4% of Capital	

THE WERDENHOFF MINING COMPANY

BY [signature]
President & Manager

[signature]
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

9. Capital Stock Issues

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Outstanding No.sh. (d)	Dividend (3)
Common Stock	$2,000,000.	$ 2,050.00 ($700,000. additional fully subscribed, not yet issued)	10¢ a share	20,500.	No prod.

THE WERDENHOFF MINING COMPANY

BY [signature]
President & Manager

[signature]
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

10. Production

Development only

THE WERDENHOFF MINING COMPANY

BY [illegible]
President & Manager

C. A. Terry
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

11. Do you contemplate a change in the average monthly rate of production etc.

As stated in 10. Development only but expect production in 1953 if money available from Dep't 11 or private sources.

THE WERDENHOFF MINING COMPANY

BY [signature]
President & Manager

[signature]
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

12. Ore or Mineral Reserves

(a) A north and south vein dipping 45 east is opened on four levels with adits, showing values in gold, silver, copper tungsten. During the present winter a low level adit at level with top of mill bunker is being driven which when completed will tap above over 1,000 feet deep on the slope of the lode. The north and south veins show gold, silver, copper, tungsten. The east and west veins show gold, silver, lead, zinc.

(b) Measured ore, None

Indicated or, Don't care to guess but looks very big

THE WERDENHOFF MINING COMPANY

BY [illegible]
President & Manager

C. A. Terry
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

13. Access Roads

Good truck roads, 85 miles to McCall, Idaho,
88 miles to Cascade, Do

Last five miles to camp should be improved as it is rough but safe.

THE WERDENHOFF MINING COMPANY

BY [illegible]
President & Manager

O A Terry
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

14. Water Supply

Wire wound wooden water pipe taps North Fork of Smith Creek, 1,000 feet from mill affording ample supply for mill and camp summer and winter. Pipe is buried below frost line.

On ~~eht~~ the five Red Bluff claims, main Smith Creek crosses the claims. Situation for gravity water supply year around and ample timber for all mining purposes, could not be better.

THE WERDENHOFF MINING COMPANY

BY [signature]
President & Manager

[signature]
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

15. Power

Tractor semi diesel, about 30 BHP

THE WERDENHOFF MINING COMPANY

BY [illegible]
President & Manager

[illegible]
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

16. Labor number etc

Just finished buying property. Have let $6,000 contract for this winter and work is under way with camp fully stocked to see the work through to completion. This work consists of timbering through 200 feet of wash to open up the low level so called "Thunder Mountain" working tunnel, 900 feet long. An extention 500 feet of this Thunder Mountain Tunnel will tap the north and south ore shoot over a thousand feet deep on the dip of the vein and permit of gravity stoping and running ore by gravity into mill bunkers.

THE WERDENHOFF MINING COMPANY

BY G. C. Mason
President & Manager

O. A. Berry
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

17. Equipment and facilities

See form M-103 for fully itemized answer to above

THE WERDENHOFF MINING COMPANY

BY [signature]
President & Manager

[signature]
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

Form M-100
General Technical Data

18. Other conditions etc.

None. Think we have presented the affair fully.

THE WERDENHOFF MINING COMPANY

BY [signature]
President & Manager

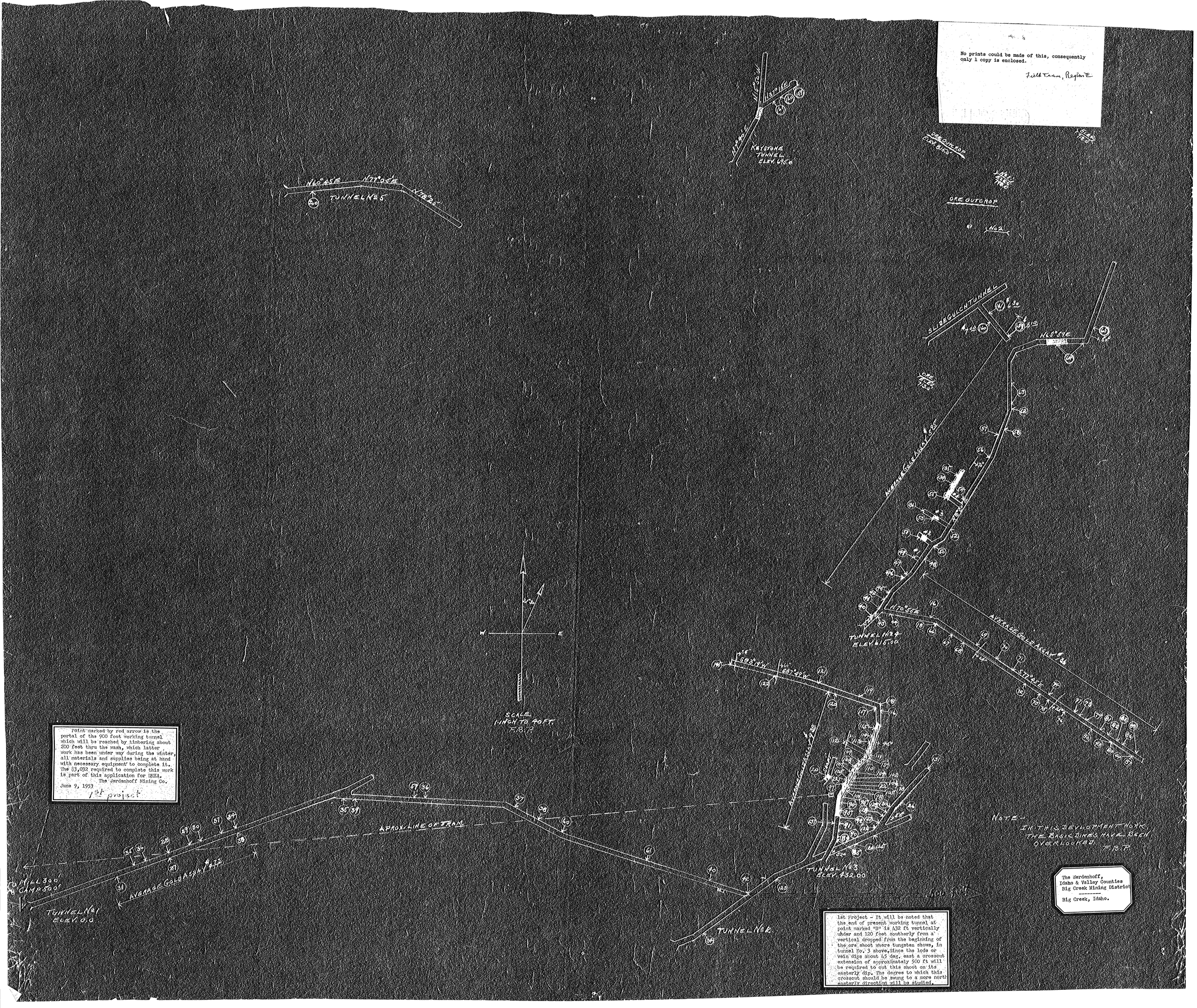
[signature]
Secretary

3924 North 37th Street,

Tacoma 7, Wash.

No prints could be made of this, consequently only 1 copy is enclosed.

Field Team, Region 4



Point marked by red arrow is the portal of the 900 foot working tunnel which will be reached by timbering about 200 feet thru the wash, which latter work has been under way during the winter, all materials and supplies being at hand with necessary equipment to complete it. The $3,032 required to complete this work is part of this application for IEEA.

The Werdenhoff Mining Co.

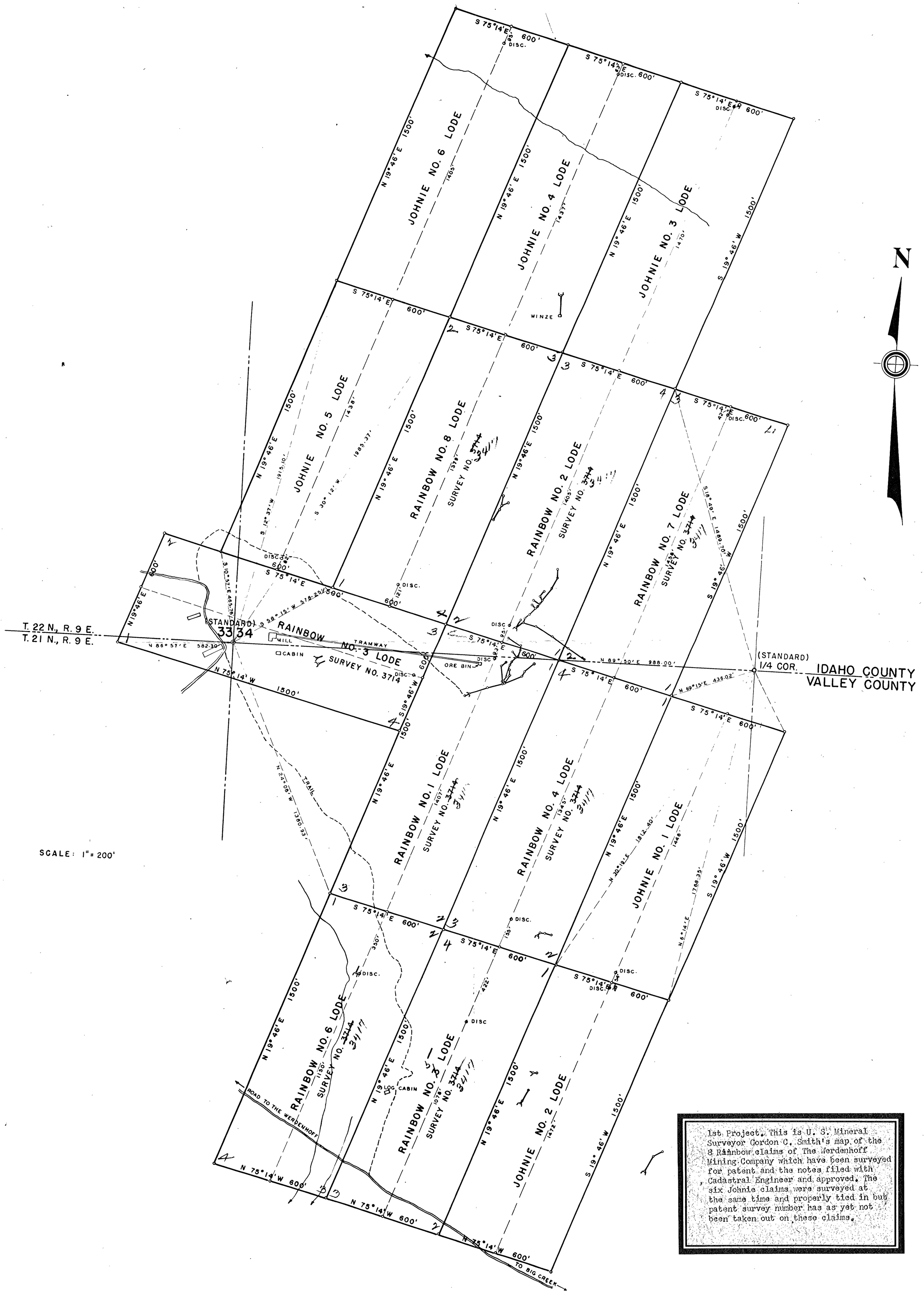
June 9, 1953

1st project

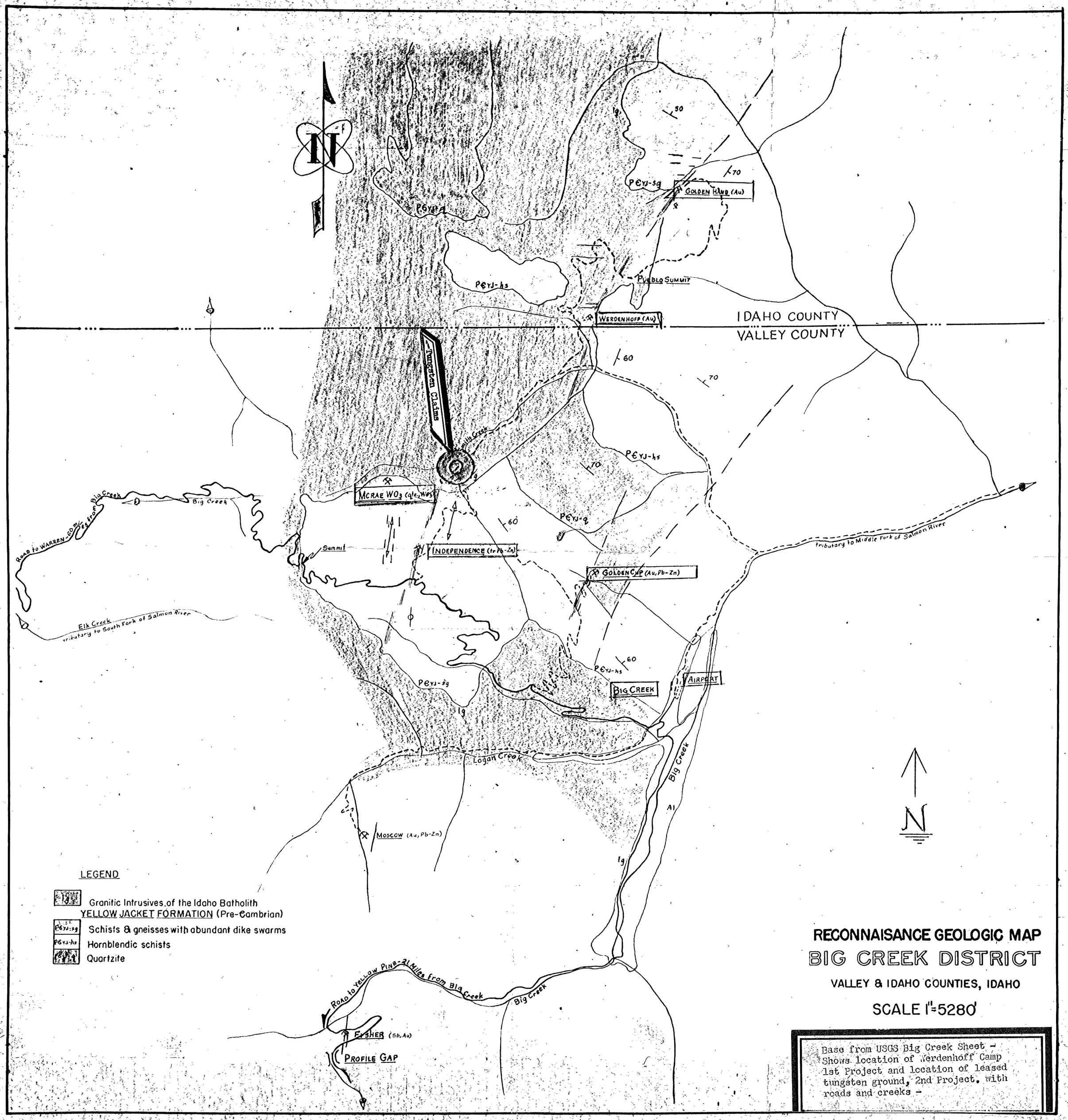
The Werdenhoff,
Idaho & Valley Counties
Big Creek Mining District

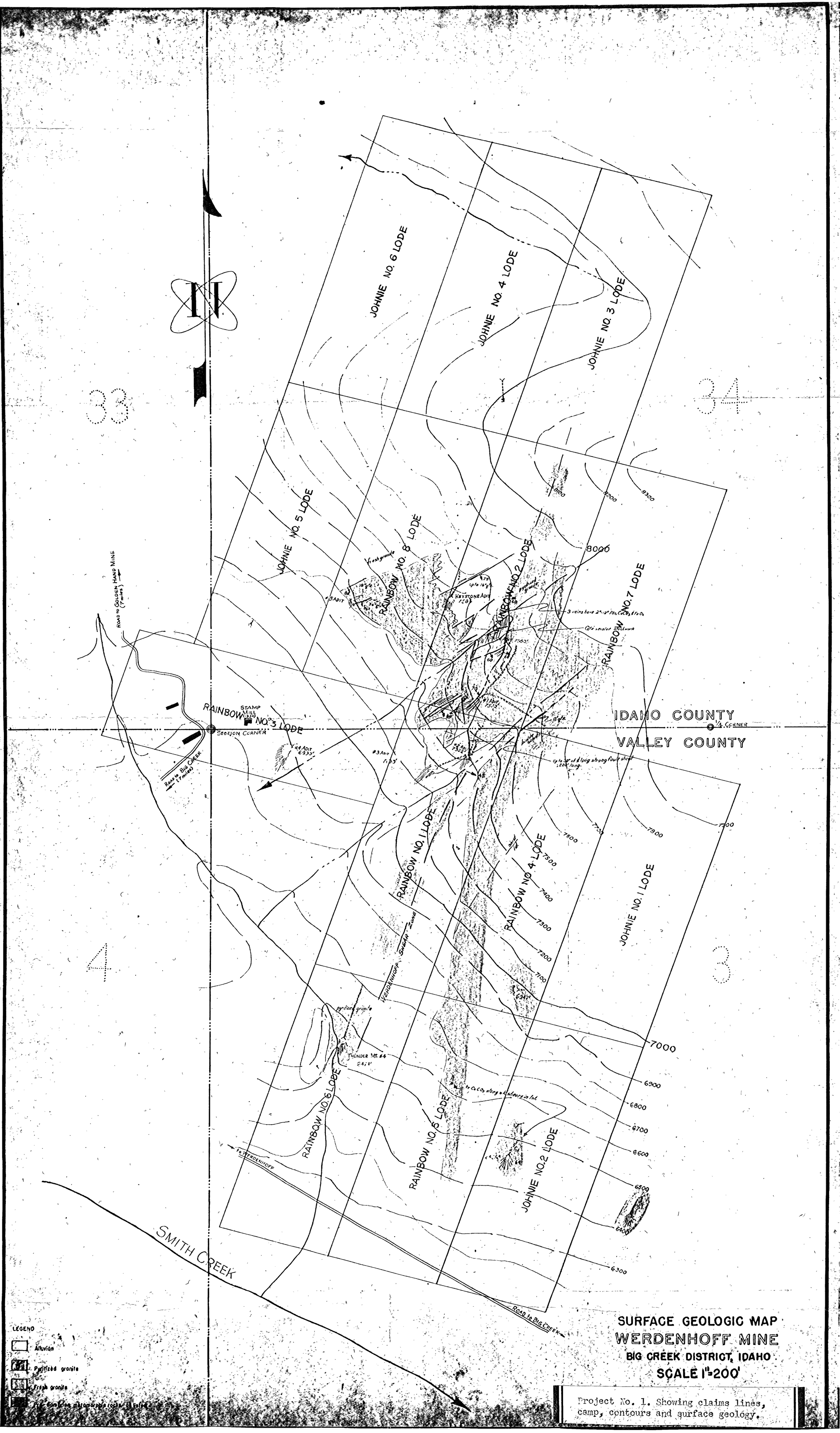
Big Creek, Idaho.

1st Project - It will be noted that the end of present working tunnel at point marked "B" is 432 ft vertically under and 120 feet southerly from a vertical dropped from the beginning of the ore shoot where tungsten shows, in tunnel No. 3 above. Since the lode or vein dips about 45 deg. east a crosscut extension of approximately 500 ft will be required to cut this shoot on its easterly dip. The degree to which this crosscut should be swung to a more north easterly direction will be studied.



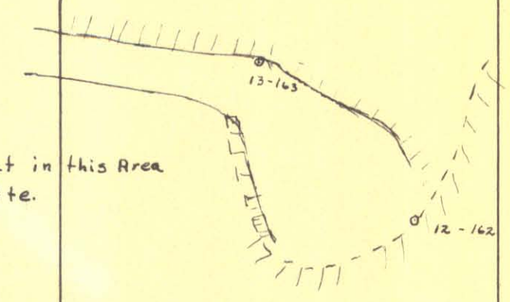
1st Project. This is U. S. Mineral Surveyor Gordon C. Smith's map of the 8 Rainbow claims of The Werdenhoff Mining Company which have been surveyed for patent and the notes filed with Cadastral Engineer and approved. The six Johnie claims were surveyed at the same time and properly tied in but patent survey number has as yet not been taken out on these claims.


N
Pєyj-sg
Golden Hawk (Au)
Pєyj-hs
Pueblo Summit
Werdenhoff (Au)
Idaho County
Valley County
Tungsten Claims
McRae WO3 (calc., WO3)
Big Creek
Road to Warren-60 mi.
Summit
Independence (tr Pb-Zn)
Golden Cup (Au, Pb-Zn)
tributary to Middle Fork of Salmon River
Elk Creek
tributary to South Fork of Salmon River
Big Creek
Airport
Logan Creek
Moscow (Au, Pb-Zn)
Road to Yellow Pine-21 Miles from Big Creek
Fisher (Sb, Au)
Profile Gap
LEGEND
Granitic Intrusives of the Idaho Batholith
YELLOW JACKET FORMATION (Pre-Cambrian)
Schists & gneisses with abundant dike swarms
Hornblendic schists
Quartzite
RECONNAISANCE GEOLOGIC MAP
BIG CREEK DISTRICT
VALLEY & IDAHO COUNTIES, IDAHO
SCALE 1"=5280'
Base from USGS Big Creek Sheet - Shows location of Werdenhoff Camp 1st Project and location of leased tungsten ground, 2nd Project, with roads and creeks -



Project No. 1. Showing claims lines, camp, contours and surface geology.

Some Qtz Float in this Area carries hubnerite.



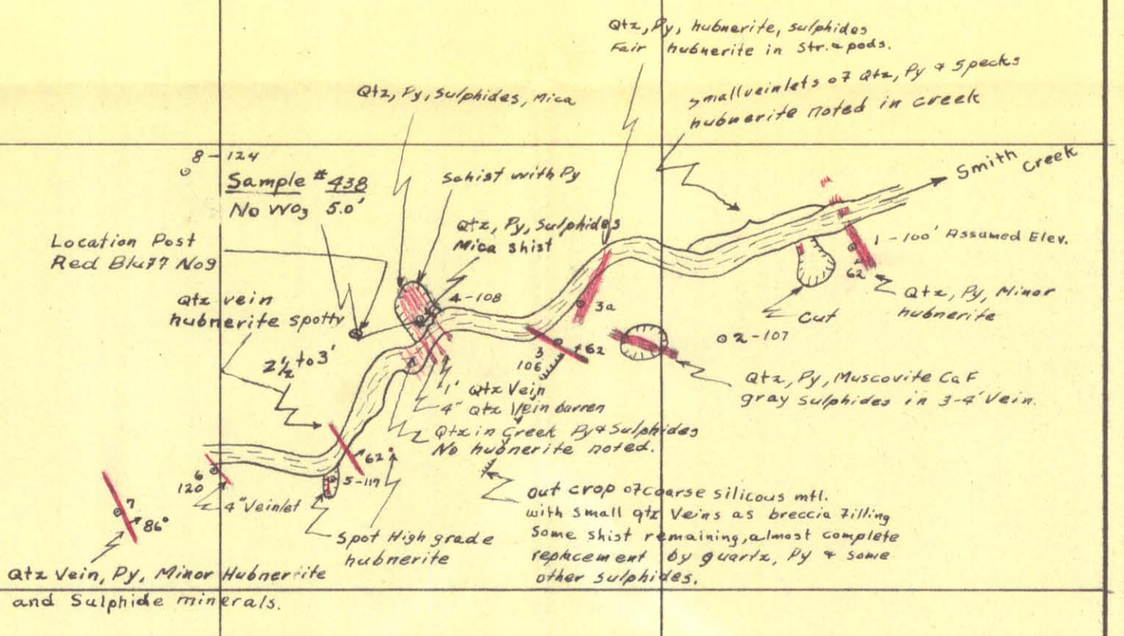
Dozer Trench
Exposures Covered 8/6/53
No hubnerite noted
Sample No 439 chipped from Qtz float. Assayed No WO_3
1 piece from sample contained scheelite.

N

11-153

10-146

9-134

Area Covered by glacial Till

Geologic Map of Hubnerite Exposure
Smith Creek, Red Bluff Claim No.9
Valley County. Idaho
DMEA 2902
Scale 1" = 40'
8/6/53 H.B.N.
Assumed Elev. Sta 1 = 100'