Administrator, DMEA

December 16, 1953

Iron and Ferro-Alloys Division

Closing Docket No. DMEA 2501 - Tungsten, by Field Team, Region IV
E. F. Bonnelli
Diamond, Dixie, Wisconsin and Trail Claims (Held under lease agreement)
Long Shot, 1905 and Nancy Henderson Claims (Owned in full)
Boulder County, Colorado

The applicant originally request $4,000.00 to perform 4700 feet of trenching to explore for tungsten on several claims in the district. A program estimated to cost $4,000.00 was considered feasible and was recommended by personnel of the Bureau of Mines and Geological Survey. However, a contract was not executed because the applicant was unable to obtain Owner's Consent to Lien on certain claims held under a lease agreement.

At a later date the applicant revised his application to include only the claims he owned in full. A program estimated to cost $2,500.00 was recommended for the Long Shot, 1905 and Nancy Henderson claims. Later, the applicant requested changes in this program.

In the meantime the applicant completed, at his own cost, sufficient exploration on the Long Shot, 1905 and Nancy Henderson claims, and revised his request for $1,550.00 to perform 1800 linear feet of trenching on the Trail and Diamond Claims.

Owner's Consent to Lien was obtained for these claims and the undertaking of this smaller portion of the original proposal, with a proportionate reduction in the over-all cost, was considered justified. Consequently, a proposed contract was prepared by the Field Team, Region IV, and copies were forwarded to the applicant for his signature.

The subject docket was closed by the Field Team, Region IV, because the applicant indicated he was no longer interested in the exploration by his failure to return copies of the proposed contract forwarded to him August 14, 1953, and he has not replied to a letter of September 25, 1953, from the Field Team.

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

JHopkins/ls
12/16/53
cc: DOCKET
ADM. READ. FILE
CODE 400

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

224 New Customhouse
Denver 2, Colorado

August 18, 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2501 (Tungsten), E. F. Bonelli, Boulder County, Colorado

This is in reply to your letter dated August 14, 1953 requesting the present status of the subject application.

While waiting for the lease and Owner's Consent to Lien, the applicant completed, at his own expense, the trenching on the Longshot, Nancy Henderson, and 1905 claims, which he owns.

He later obtained a lease and Owner's Consent to Lien on the 3/18ths interest on the Diamond, Dixie, Wisconsin, and Trail claims, and a contract for this portion of the work has been sent to Mr. Bonelli for his signature.

W. H. King

W. H. King

AUG 1 4 1953

Mr. W. H. King, Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA 2501 - Tungsten
E. F. Lomelli
1905 et al. claims
Boulder County, Colorado

Dear Mr. King:

Your letter of June 22, 1953, regarding the above docketed application for exploration assistance advised that an exploration contract was being prepared in your office.

It would be appreciated if you would advise this office of the present status of Mr. Lomelli's application.

Sincerely yours,

W. S. Martin
Acting Chairman, Operating Committee

APPROVED:

J. E. Hedges
Member, Bureau of Mines

A. R. Kinkel, Jr.
Member, Geological Survey

FAHutledge:foc
8-13-53
cc: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. Reg. 4
R. W. Gephan, USBM
Mary Miller, USGS

DMEA-2501 - E. F. Bonelli (Longshot and Nancy Henderson claims (Tungsten) Boulder County, Colo.

This application had been processed previously and engineering and geological reports transmitted recommending a maximum of $4,000.00 for trenching and test pitting. The applicant was unable to clear title to all of the property involved. The recent request from the applicant revised the amount of exploration to those claims owned by the applicant. Memorandum report recommending a contract for $1,500.00 was submitted to Region IV on June 15, 1953. In the meantime, the applicant accomplished part of the exploration work at his own expense and also clarified title to the remaining part of the claims on the original application. He then requested that the original application be reconsidered and, accordingly, a revised program was agreed upon along the lines recommended in the original, eliminating the work already accomplished by the applicant. A supplemental memorandum was forwarded to the Executive Officer, Region IV, on July 30. A contract has been forwarded to the operator for signature.

NDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA

DATE: December 16, 1953

FROM : Iron and Ferro-Alloys Division

Noted Com

SUBJECT: Closing Docket No. DMEA 2501 - Tungsten, by Field Team, Region IV
E. F. Bonnelli
Diamond, Dixie, Wisconsin and Trail Claims (Held under lease agreement)
Long Shot, 1905 and Nancy Henderson Claims (Owned in full)
Boulder County, Colorado

The applicant originally request $4,000.00 to perform 4700 feet of trenching to explore for tungsten on several claims in the district. A program estimated to cost $4,000.00 was considered feasible and was recommended by personnel of the Bureau of Mines and Geological Survey. However, a contract was not executed because the applicant was unable to obtain Owner's Consent to Lien on certain claims held under a lease agreement.

At a later date the applicant revised his application to include only the claims he owned in full. A program estimated to cost $2,500.00 was recommended for the Long Shot, 1905 and Nancy Henderson claims. Later, the applicant requested changes in this program.

In the meantime the applicant completed, at his own cost, sufficient exploration on the Long Shot, 1905 and Nancy Henderson claims, and revised his request for $1,550.00 to perform 1800 linear feet of trenching on the Trail and Diamond Claims.

Owner's Consent to Lien was obtained for these claims and the undertaking of this smaller portion of the original proposal, with a proportionate reduction in the over-all cost, was considered justified. Consequently, a proposed contract was prepared by the Field Team, Region IV, and copies were forwarded to the applicant for his signature.

The subject docket was closed by the Field Team, Region IV, because the applicant indicated he was no longer interested in the exploration by his failure to return copies of the proposed contract forwarded to him August 14, 1953, and he has not replied to a letter of September 25, 1953, from the Field Team.

W S Martin

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

Hop
Martin

Administrator, DMEA

December 16, 1953

Iron and Ferro-Alloys Division

Closing Docket No. DMEA 2501 - Tungsten, by Field Team, Region IV
E. F. Bonnelli
Diamond, Dixie, Wisconsin and Trail Claims (Held under lease agreement)
Long Shot, 1905 and Nancy Henderson Claims (Owned in full)
Boulder County, Colorado

The applicant originally request $4,000.00 to perform 4700 feet of trenching to explore for tungsten on several claims in the district. A program estimated to cost $4,000.00 was considered feasible and was recommended by personnel of the Bureau of Mines and Geological Survey. However, a contract was not executed because the applicant was unable to obtain Owner's Consent to Lien on certain claims held under a lease agreement.

At a later date the applicant revised his application to include only the claims he owned in full. A program estimated to cost $2,500.00 was recommended for the Long Shot, 1905 and Nancy Henderson claims. Later, the applicant requested changes in this program.

In the meantime the applicant completed, at his own cost, sufficient exploration on the Long Shot, 1905 and Nancy Henderson claims, and revised his request for $1,550.00 to perform 1800 linear feet of trenching on the Trail and Diamond Claims.

Owner's Consent to Lien was obtained for these claims and the undertaking of this smaller portion of the original proposal, with a proportionate reduction in the over-all cost, was considered justified. Consequently, a proposed contract was prepared by the Field Team, Region IV, [redacted] copies were forwarded to the applicant for his signature.

The subject docket was closed by the Field Team, Region IV, because the applicant indicated he was no longer interested in the exploration by his failure to return copies of the proposed contract forwarded to him August 14, 1953, and he has not replied to a letter of September 25, 1953, from the Field Team.

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

JHopkins/ls
12/16/53
cc: DOCKET
ADM. READ. FILE
CODE 400

R.C.G.
12-19-53

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

224 New Customhouse
Denver 2, Colorado

October 30, 1953.

Memorandum

WSM

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Supplemental Report of Examination
Supplement to the Supplemental Report of Examination
DMEA Docket 2501 (Tungsten), E. F. Benelli, Long Shot and Nancy Henderson Claims, Boulder County, Colorado.

Enclosed are four copies of the Supplemental Report of Examination and four copies of the Supplement to the Supplemental Report of Examination on the subject docket. The applicant failed to return copies of the proposed contract forwarded to him August 14, 1953 and he has not replied to our letter of September 25, 1953.

We assume that he is no longer interested in the exploration work so the docket has been closed.

W H King
W. H. King

E. N. Hawkman
for A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

June 22, 1953.

Memorandum

To: DMEA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Supplemental Report, DMEA Docket 2501 (Tungsten), E. F. Bonelli, Boulder County, Colorado.

Enclosed are eight copies of the supplemental engineering report on the subject docket.

The applicant applied for $4,000.00 to explore two groups of claims but he was unable to obtain the Owner's Consent to Lien on one group. He now wishes to explore only the group of claims which he owns outright.

The examining engineer recommends exploration work in the amount of $2,500.00 to trench by bulldozer to bedrock. We concur in this recommendation.

W. H. King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 15, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 2501 (Tungsten), E. F. Bonelli, Long Shot, 1905, Nancy Henderson claims, Boulder County, Colorado - Revision of applicant's original exploration program and costs

Please find enclosed the original and eight copies of an engineering report by R. L. Bolmer on the above Defense Minerals Exploration Administration docket.

Bolmer's memorandum prepared as a supplement to the original report submitted June 9, 1952, recommends a project of bulldozer and hand trenching totaling $2,500.00 on ground presently owned by the applicant. Government participation on a tungsten loan of $2,500.00 will be 75 percent, or $1,875.00. Should Bonelli acquire or be able to lease the other claims and obtain subordination before the project is completed, the remaining work on the original request can be authorized by an amendment. The short-form contract does not appear feasible.

I approve the recommendation because of the favorable area involved and Ogden Tweto's prior approval.

Brochure transmitted with your memorandum of June 5, 1953, is returned herewith.

W. M. Traver

W. M. Traver

enclosures

WMT/pam

cc 8
DMEA 2501
DMEA Chron.

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

June 19, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2501, E. F. Bonelli; Long Shot, 1905, and Nancy Henderson Claims, Boulder County, Colorado.

Attached are 8 copies of a memorandum from E. N. Hershman covering DMEA Docket 2501, E. F. Bonelli; Long Shot, 1905, and Nancy Henderson Claims, Boulder County, Colorado.

Hershman recommends that an exploration loan be approved, but that the exploration program proposed by the applicant be reduced.

I concur in this recommendation.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

June 9, 1953

Memorandum

To: Mr. A. H. Koschmann

From: E. N. Harshman, Geologist, U. S. Geological Survey

Subject: DMEA Docket 2501, E. F. Bonelli, Long Shot, 1905, and Nancy Henderson Claims, Boulder County, Colorado. Tungsten.

E. F. Bonelli, Nederland, Colorado, has requested the Defense Minerals Exploration Administration to reopen his application for Government assistance, DMEA Docket 2501, and to consider only that part of his proposed exploration located on the Long Shot, 1905, and Nancy Henderson claims.

The original application requested exploration on 12 claims divided into three separate groups. After discussions with the examining team (Tweto and Boimer), the applicant agreed to withdraw his third group from further consideration and to limit exploration to seven claims.

In the geological report by Ogden Tweto, transmitted to the Field Team, Region IV, on June 2, 1952, exploration estimated to cost $4,000 was recommended.

Subsequently, the applicant was unable to obtain clear title to the four claims in group 2 of the original application. His present request is for exploration of the group 1 claims which he owns.

No additional geologic data has been obtained since the field examination by Tweto and Boimer, and their conclusions and recommendations appear valid.

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

Approval of the exploration program outlined by Mr. Tweto for the group I claims is, therefore, recommended. The estimated cost of the reduced exploration program is estimated by the U. S. Bureau of Mines to be $2,500, Government participation $1,875.

Approved
A. H. Koschmann
6/19/53

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 15, 1953

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2501 (Tungsten), E. F. Bonelli, Long Shot, 1905, Nancy Henderson claims, Boulder County, Colorado - Revision of applicant's original exploration program and costs

The subject applicant has requested that his original application for exploration assistance be reopened and consideration given only to that portion of his proposed program located on the Long Shot, 1905, and Nancy Henderson claims, which he owns.

On the basis of a geological report by Ogden Tweto, which recommended 4,700 feet of trenching on several claims in the district, and upon an examination of the property May 27, 1952, by personnel of the Bureau of Mines, a program estimated to cost $4,000.00 was considered feasible and was recommended.

As the applicant was part owner only of certain portions of the property involved in the program and as subordination of the rights of the other owners was not obtained, a contract was not drawn up.

The three claims, now requested for consideration, are owned wholly by the applicant. Approximately 2,900 feet of trenching originally was recommended for these claims. The undertaking of this smaller portion of the original proposal, with a proportionate reduction in the over-all cost, is considered justified.

Description of Work Recommended

Trench with a bulldozer approximately 2,300 linear feet at locations shown on figures 1 and 2 of geological report and distributed approximately as follows:

1935 mining claim	1,500 feet
Long Shot claim	300 feet
Nancy Henderson claim	600 feet

All alluvium material shall be removed from the trenches and bedrock exposed. Alluvium occurring in irregularities of the bedrock not feasible for removal by bulldozer, shall be cleaned by common hand labor. Veins encountered shall be sampled if warranted. Upon completion of authorized trenching, any funds remaining may be spent, at the discretion of the DMEA representative, upon shallow prospecting to expose veins then uncovered.

Estimated Cost

Independent contracts

Rental of bulldozer (minimum size equivalent to late model Caterpillar D6), operator, fuel, transportation to the site included.

Approximately 185 hours at $10.00 per hour — $1,850.00

Supervision

Part-time supervision by operator, including location of trenches, keeping of necessary records, preparing reports to Government.

100 hours at $2.00 per hour — 200.00*

Labor

Common labor to follow up bulldozer with pick and shovel cleaning up alluvium and irregularities in bedrock and prospecting slightly any veins encountered.

250 hours at $1.50 per hour — 375.00

Analyses	$ 75.00*
Total	$2,500.00
Government participation at 75 percent	$1,875.00

*Allowable maximum

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/pam

cc 8
DMEA 2501

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

Department of the Interior
Defense Minerals Administration
RECEIVED
NOV - 2 1953

224 New Customhouse
Denver 2, Colorado

October 30, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Supplemental Report of Examination
Supplement to the Supplemental Report of Examination
DMEA Docket 2501 (Tungsten), E. F. Bonelli, Long Shot and Nancy Henderson Claims, Boulder County, Colorado.

Enclosed are four copies of the Supplemental Report of Examination and four copies of the Supplement to the Supplemental Report of Examination on the subject docket. The applicant failed to return copies of the proposed contract forwarded to him August 14, 1953 and he has not replied to our letter of September 25, 1953.

We assume that he is no longer interested in the exploration work so the docket has been closed.

W. H. King
W. H. King

E. N. Harshman
for A. H. Koschmann

Enclosures

WITHDRAWN

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

June 22, 1953.

Memorandum

To: DMEA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Supplemental Report, DMEA Docket 2501 (Tungsten), E. F. Ranelli, Boulder County, Colorado.

Enclosed are eight copies of the supplemental engineering report on the subject docket.

The applicant applied for $4,000.00 to explore two groups of claims but he was unable to obtain the Owner's Consent to Lien on one group. He now wishes to explore only the group of claims which he owns outright.

The examining engineer recommends exploration work in the amount of $2,500.00 to trench by bulldozer to bedrock. We concur in this recommendation.

W. H. King
W. H. King

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 15, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 2501 (Tungsten), E. F. Bonalli, Long Shot, 1905, Nancy Henderson claims, Boulder County, Colorado - Revision of applicant's original exploration program and costs

Please find enclosed the original and eight copies of an engineering report by R. L. Bolmer on the above Defense Minerals Exploration Administration docket.

Bolmer's memorandum prepared as a supplement to the original report submitted June 9, 1952, recommends a project of bulldozer and hand trenching totaling $2,500.00 on ground presently owned by the applicant. Government participation on a tungsten loan of $2,500.00 will be 75 percent, or $1,875.00. Should Bonelli acquire or be able to lease the other claims and obtain subordination before the project is completed, the remaining work on the original request can be authorized by an amendment. The short-form contract does not appear feasible.

I approve the recommendation because of the favorable area involved and Ogden Tweto's prior approval.

Brochure transmitted with your memorandum of June 5, 1953, is returned herewith.

W. M. Traver

W. M. Traver

enclosures

WMT/pam

cc 8
DMEA 2501
DMEA Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

June 19, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2501, E. F. Bonelli; Long Shot, 1905, and Nancy Henderson Claims, Boulder County, Colorado.

Attached are 8 copies of a memorandum from E. N. Harshman covering DMEA Docket 2501, E. F. Bonelli; Long Shot, 1905, and Nancy Henderson Claims, Boulder County, Colorado.

Harshman recommends that an exploration loan be approved, but that the exploration program proposed by the applicant be reduced.

I concur in this recommendation.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

June 9, 1953

Memorandum

To: Mr. A. H. Koschmann

From: E. N. Harshman, Geologist, U. S. Geological Survey

Subject: DMEA Docket 2501, E. F. Bonelli, Long Shot, 1905, and Nancy Henderson Claims, Boulder County, Colorado. Tungsten.

E. F. Bonelli, Nederland, Colorado, has requested the Defense Minerals Exploration Administration to reopen his application for Government assistance, DMEA Docket 2501, and to consider only that part of his proposed exploration located on the Long Shot, 1905, and Nancy Henderson claims.

The original application requested exploration on 12 claims divided into three separate groups. After discussions with the examining team (Tweto and Bolmer), the applicant agreed to withdraw his third group from further consideration and to limit exploration to seven claims.

In the geological report by Ogden Tweto, transmitted to the Field Team, Region IV, on June 2, 1952, exploration estimated to cost $4,000 was recommended.

Subsequently, the applicant was unable to obtain clear title to the four claims in group 2 of the original application. His present request is for exploration of the group 1 claims which he owns.

No additional geologic data has been obtained since the field examination by Tweto and Bolmer, and their conclusions and recommendations appear valid.

Approval of the exploration program outlined by Mr. Tweto for the group I claims is, therefore, recommended. The estimated cost of the reduced exploration program is estimated by the U. S. Bureau of Mines to be $2,500, Government participation $1,875.

Approved
A. H. Koschmann
6/19/53

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
June 15, 1953

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2501 (Tungsten), E. F. Bonelli, Long Shot, 1905, Nancy Henderson claims, Boulder County, Colorado - Revision of applicant's original exploration program and costs

The subject applicant has requested that his original application for exploration assistance be reopened and consideration given only to that portion of his proposed program located on the Long Shot, 1905, and Nancy Henderson claims, which he owns.

On the basis of a geological report by Ogden Tweto, which recommended 4,700 feet of trenching on several claims in the district, and upon an examination of the property May 27, 1952, by personnel of the Bureau of Mines, a program estimated to cost $4,000.00 was considered feasible and was recommended.

As the applicant was part owner only of certain portions of the property involved in the program and as subordination of the rights of the other owners was not obtained, a contract was not drawn up.

The three claims, now requested for consideration, are owned wholly by the applicant. Approximately 2,900 feet of trenching originally was recommended for these claims. The undertaking of this smaller portion of the original proposal, with a proportionate reduction in the over-all cost, is considered justified.

Description of Work Recommended

Trench with a bulldozer approximately 2,900 linear feet at locations shown on figures 1 and 2 of geological report and distributed approximately as follows:

1905 mining claim	1,500 feet
Long Shot claim	800 feet
Nancy Henderson claim	600 feet

All alluvium material shall be removed from the trenches and bedrock exposed. Alluvium occurring in irregularities of the bedrock not feasible for removal by bulldozer, shall be cleaned by common hand labor. Veins encountered shall be sampled if warranted. Upon completion of authorized trenching, any funds remaining may be spent, at the descretion of the DMEA representative, upon shallow prospecting to expose veins then uncovered.

Estimated Cost

Independent contracts

Rental of bulldozer (minimum size equivalent to late model Caterpillar D6), operator, fuel, transportation to the site included.

Approximately 185 hours at $10.00 per hour — $1,850.00

Supervision

Part-time supervision by operator, including location of trenches, keeping of necessary records, preparing reports to Government.

100 hours at $2.00 per hour — 200.00*

Labor

Common labor to follow up bulldozer with pick and shovel cleaning up alluvium and irregularities in bedrock and prospecting slightly any veins encountered.

250 hours at $1.50 per hour — 375.00

Analyses	$ 75.00*
Total	$2,500.00
Government participation at 75 percent	$1,875.00

*Allowable maximum

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/pam

cc 8
DMEA 2501

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

224 New Customhouse
Denver 2, Colorado

September 25, 1953

Mr. E. F. Bonelli
Nederland, Colorado

Re: Docket No. DMEA 2501
(Tungsten), Diamond, Dixie,
Wisconsin, and Trail Claims,
Boulder County, Colorado

Dear Mr. Bonelli:

On August 14, 1953, we forwarded you six copies of a proposed contract for signature.

To date, we have not received the signed copy of your lease, or the photostat of the signed copy of your lease, nor the six copies of the proposed contract which we forwarded you on August 14, 1953.

We presume that you are no longer interested in this exploration work, and will close this docket in thirty days if we do not receive the above-mentioned data.

Very truly yours,

W. H. King

W. H. King
Executive Officer
DMEA Field Team, Region IV

HMC:es

cc: Docket
Mittendorf
Chron.
Traver
Koschmann (2)

48

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

224 New Customhouse
Denver 2, Colorado

August 18, 1953

Memorandum

Reg IV case

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2501 (Tungsten), E. F. Bonelli, Boulder County, Colorado

This is in reply to your letter dated August 14, 1953 requesting the present status of the subject application.

While waiting for the lease and Owner's Consent to Lien, the applicant completed, at his own expense, the trenching on the Longshot, Nancy Henderson, and 1905 claims, which he owns.

He later obtained a lease and Owner's Consent to Lien on the 3/18ths interest on the Diamond, Dixie, Wisconsin, and Trail claims, and a contract for this portion of the work has been sent to Mr. Bonelli for his signature.

W. H. King
W. H. King

Reg 4 had advised. no contract been prepared & when [illegible] 8/14 [illegible] letter we asked for it. L.S.

Copy retained 400

FILE COPY
400 SURNAME:

Rutledge
Martin
Selvey
Waterbury

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

AUG 1 4 1953

Mr. W. H. King, Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA 2501 - Tungsten
E. F. Bonelli
1905 et al. claims
Boulder County, Colorado

Dear Mr. King:

Your letter of June 22, 1953, regarding the above docketed application for exploration assistance advised that an exploration contract was being prepared in your office.

It would be appreciated if you would advise this office of the present status of Mr. Bonelli's application.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee

APPROVED:

T. K. Hedges
Member, Bureau of Mines

A. R. Kinkel, Jr.
Member, Geological Survey

FARutledge:foc
8-13-53
cc: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. Reg. 4
R. W. Geehan, USBM
Mary Miller, USGS

8-14-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

August 12, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Supplement to the Supplemental Report, DMEA Docket 2501, (Tungsten), E. F. Bonelli; Diamond, Dixie, Wisconsin and Trail Claims, Boulder County, Colorado.

Enclosed are nine copies of the engineering supplement to the supplemental report on the subject docket.

The applicant listed the exploration work involved in this report as Project No. 2 in his original application and he had some difficulty in obtaining the Owner's Consent to Lien. In the meantime he completed Project No. 1 at his own expense.

The examining engineer recommends bulldozing to bedrock to explore the Trail and Diamond claims at a total cost of $1,500.00.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

Region IV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 29, 1953

Memorandum

To: Executive Officer, Field Team, Region IV

From: Chief, Mineral Resources Branch, Mining Division, Region IV

Subject: DMEA 2501 (Tungsten), E. F. Bonelli (Trail and Diamond claims), Boulder County, Colorado - Revision of applicant's original exploration program and costs

Please find enclosed the original and eight copies of a second supplemental memorandum by R. L. Bolmer recommending further revision of an exploration project to cover the applicant's Trail and Diamond claims.

Exploration will be essentially the same type as originally recommended except for its limitation to the two claims involved.

I concur with Bolmer's recommendations.

W. M. Traver

W. M. Traver

enclosures

WMT/eb

cc: 8
DMEA 2501
Chron.

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20, Room 137
Denver Federal Center
Denver 14, Colorado
July 29, 1953

Memorandum

To: Chief, Mineral Resources Branch, Mining Division, Region IV

From: R. L. Bolmer

Subject: DMEA 2501 (Tungsten), E. F. Bonelli (Trail and Diamond claims), Boulder County, Colorado - Revision of applicant's original exploration program and costs

The subject applicant has requested that his original application for exploration assistance be reopened and consideration given to that portion of the program located on the Trail and Diamond claims.

On the basis of a geological report which recommended 4,700 feet of trenching on several claims in the district, and upon the examination of the property by personnel of the Bureau of Mines, a program estimated to cost $4,000.00 originally was considered feasible and was recommended. The applicant was part owner only of certain portions of the property involved in the program and unable to obtain the Owner's Consent to Lien on the unowned portions. At a later date, the applicant revised his application to include only the claims he owned in full. A trenching program, estimated to cost $2,500.00, was recommended for the Long Shot, 1905, and Nancy Henderson claims. The applicant since has requested changes in the revised program.

Reviewed by
DMEA OPERATING COMMITTEE
11-6-53
(date)

In the interim, the applicant has completed, at his own cost, what he believes is sufficient exploration on the above three claims. Further trenching there, he believes, is not justified. He now has obtained the Owner's Consent to Lien for that portion of the Trail and Diamond claims which he does not own and was unable to obtain previously. A revised program, to consist of the work originally recommended for only the Trail and Diamond claims, some 1,800 linear feet of trenching, has been requested. The undertaking of this smaller portion of the original proposal, with a proportionate reduction in the over-all cost, is considered justified.

Description of Work Recommended

Trench with a bulldozer approximately 1,800 linear feet on the Trail and Diamond claims in the four areas designated in figure 3 of the original geological report.

Alluvium material shall be removed from the trenches and bed rock exposed. Alluvium occurring in irregularities of the bed rock not feasible for removal by bulldozer shall be cleared by common hand labor. Veins encountered shall be sampled, if warranted. Upon completion of the authorized trenching, any funds remaining may be spent, at the discretion of a DMEA representative, for the shallow prospecting of veins which have been exposed by trenching.

Estimated Cost of the Work

Independent contracts	
Rental of bulldozer (minimum size equivalent to late model Caterpillar D6), operator, fuel, and transportation to site included. Approximately 100 hours at $12.00 per hour	$1,200.00
Supervision	
Part time supervision, including location of trenches, sampling, keeping of necessary records, and preparation of Government reports. (To be performed by the operator at no cost to the project)	-
Labor	
Common labor to follow bulldozer with pick and shovel cleaning up alluvium from irregularities in the bed rock and prospecting slightly any veins encountered. Approximately 200 hours at $1.50 per hour	300.00
Analyses of samples	50.00
Total estimated cost	$1,550.00
Government participation at 75 percent	$1,162.50

R. L. Bolmer

R. L. Bolmer
Mining Engineer

RLB/cb

cc: 8
DMEA 2501

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

224 New Customhouse
Denver 2, Colorado

August 12, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Supplement to the Supplemental Report, DMEA Docket 2501 (Tungsten), E. F. Bonelli; Diamond, Dixie, Wisconsin and Trail claims, Boulder County, Colorado.

The application for Government assistance in exploration work estimated to cost $1,500.00 has been approved by us and a contract is being prepared.

Government participation will be 75 percent, or $1,125.00.

Four copies of the Final Report will be forwarded when the contract is executed. Two copies of Form 3b are attached.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

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

224 New Customhouse
Denver 2, Colorado

August 12, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Supplement to the Supplemental Report, DMEA Docket 2501 (Tungsten), E. F. Bonelli; Diamond, Dixie, Wisconsin and Trail claims, Boulder County, Colorado.

The application for Government assistance in exploration work estimated to cost $1,500.00 has been approved by us and a contract is being prepared.

Government participation will be 75 percent, or $1,125.00.

Four copies of the Final Report will be forwarded when the contract is executed. Two copies of Form 3b are attached.

W. H. King
W. H. King

A. N. Koschmann
A. N. Koschmann

Enclosures

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

224 New Customhouse
Denver 2, Colorado

June 22, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200.

From: Field Team, Region IV

Subject: Supplemental Report, DMEA Docket 2501 (Tungsten),
E. F. Bonelli, Boulder County, Colorado.

The applicant failed to obtain Owner's Consent to Lien on the entire property and revised his application to include only the claims he owns.

Exploration aid has been approved in the amount of $2,500.00 and the contract will be prepared by this office. Four copies of the final and supplemental reports will be forwarded you when the contract is executed. Two copies of Form 3b are attached.

W. H. King
W. H. King

E. N. Hawkman
for A. H. Koschmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defence Minerals Administration
RECEIVED
JUN 2 6 1953

Copy retained 400

Docket
Reg. 4

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

224 New Customhouse
Denver 2, Colorado

June 22, 1953.

WSY

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200.

From: Field Team, Region IV

Subject: Supplemental Report, DMEA Docket 2501 (Tungsten),
E. F. Bonelli, Boulder County, Colorado.

The applicant failed to obtain Owner's Consent to Lien on the entire property and revised his application to include only the claims he owns.

Exploration aid has been approved in the amount of $2,500.00 and the contract will be prepared by this office. Four copies of the final and supplemental reports will be forwarded you when the contract is executed. Two copies of Form 3b are attached.

W. H. King
W. H. King

E. N. Harshman
for A. H. Koschmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 26 1953

Copy retained 400

DMEA Form 3b
(Revised)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMEA Docket No. 2501 SUPPLEMENTAL

Name of Applicant E. F. Bonelli

Change:	From		To	
	III 1	☐	III 1	☒ 6-22-53
	III 2	☐	III 2	☐
	III 3	☐	III 3	☐
	III 4	☒	III 4	☐
	III 5	☐	III 5	☐
			III 6	☐
			III 7	☐

Add:

II 7 $ 4,000.00

II 8 $ 2,500.00

II 8a % 75

II 9 $

Remarks: Applicant failed to obtain Owner's Consent to Lien on entire property and has revised his exploration program to include only the claims he owns.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 26 1953

Initials of person preparing sheet HMC

Date sheet prepared 6-22-53.

33978

DMEA Form 3b
(Revised)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

CONTROLLED DOCUMENT
Revised Abstract

DMEA Docket No. 2501 **SUPPLEMENTAL**

Name of Applicant **E. F. Bonelli**

Change:	From		To	
	III 1	☐	III 1	☒ 6-22-53
	III 2	☐	III 2	☐
	III 3	☐	III 3	☐
	III 4	☒	III 4	☐
	III 5	☐	III 5	☐
			III 6	☐
			III 7	☐

Add:		
	II 7	$ 4,000.00
	II 8	$ 2,500.00
	II 8a	% 75
	II 9	$

Remarks: **Applicant failed to obtain Owner's Consent to Lien on entire property and has revised his exploration program to include only the claims he owns.**

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 26 1953

Initials of person preparing sheet **HMC**

Date sheet prepared **6-22-53.**

33978

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Docket No. DMEA 2501 - Tungsten

DATE: August 22, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

SUBJECT: Cancellation of application
Docket No. DMEA 2501 - Tungsten
E. F. Bonelli
Boulder County, Colorado
Exploration assistance of $4,000.00 requested

The applicant requested $4,000.00 to trench by bulldozer and sample talus-covered ferberite veins on two different groups of claims. Of this amount $3,000.00 was set up for 300 hours of bulldozer trenching and $1,000.00 for 666 hours of hand labor for cleaning off bedrock and sampling.

The exploration program was approved in full by both members of the examining field team.

From a review of the docket, it is the opinion of the Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration, that the proposed exploration project was warranted.

The following data have been taken from the Monthly Reports, Mining Division, Region IV, Bureau of Mines:

May 21 to June 20, 1952 - Field examiners have prepared a preliminary report recommending the loan.

June 21 to July 20, 1952 - A contract is being prepared.

The application has been cancelled by the field team at the request of the applicant, and this docket is to be removed from the active files.

F. A. Rutledge

F. A. Rutledge

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

224 New Customhouse
Denver 2, Colorado

August 7, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2501 (Tungsten), E. F. Bonelli, Boulder County, Colorado

Enclosed are four copies of the report on DMEA-2501.

The application has been cancelled.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
AUG 14 1952

Mining Division
Region IV

June 11, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2501, (Tungsten) E. F. Bonelli, Boulder County, Colorado

Attached are nine copies of the final engineering report on DMEA-2501 by R. L. Bolmer of the Bureau of Mines.

The field examiners recommend the proposed exploration by trenching at a cost of $4,000.00.

We concur in their recommendation.

W. H. King

W. H. King

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
[illegible]
AUG 14 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado

June 4, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: DMEA 2501 (Tungsten), Nancy Henderson, 1905, Longshot, Wisconsin et al claims, E. F. Bonelli, applicant; Boulder County, Colorado.

Please find enclosed the original and eight copies of a short engineering memorandum, by R. L. Bolmer, on the subject docket to accompany a "Summary, Conclusions, and Recommendations" and geologic report prepared by Ogden Tweto, U. S. Geological Survey.

We have not followed the usual engineering report outline in this instance due to the fact, as stated by Tweto, that it is impossible to calculate costs accurately from the rather sketchy information available.

Bolmer, on the basis of Tweto's findings, recommends about 300 hours of bulldozer trenching at a cost of $3,000.00 and some 666 hours of hand labor for cleaning off bedrock in the bulldozer trenches at a cost of $1,000.00, or a total of $4,000.00. I agree with Bolmer's recommendations, but believe the project should be limited to the amount of bulldozer trenching and corresponding bedrock cleanup in hours suggested regardless of whether the 4,700 feet in five trenches is accomplished or not. Accordingly, the most favorable locations for the work should be attacked first.

The brochure submitted by the Region IV Field Team with their instructions to make a field examination is also enclosed. Your attention is called to the applicant's request that the maps accompanying the form be returned to him.

W. M. Traver, Jr.

W. M. Traver, Jr.

Enclosures

WMT/bam

cc: 8
General
Chron.

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

200 New Customhouse
Denver 2, Colo.

June 2, 1952

Memorandum

To : DMEA Field Team, Region IV

From : A. H. Koschmann

Subject: DMEA Docket 2501, E. F. Bonelli, Boulder Tungsten District, Colo.

Attached are 8 copies of the geological report by Ogden Tweto covering DMEA Docket 2501 (Tungsten), E. F. Bonelli, Boulder Tungsten District, Colorado.

The applicant proposes to spend $4,000 to explore by trenching with a bulldozer 3 groups of claims that are largely covered by slope wash and alluvium. On Group I, which includes 3 non-contiguous claims, productive veins extend into covered areas that are unexplored. On Group II there are indications of several veins. "Tungsten float", in places relatively abundant, is found in both areas. Tweto, therefore, feels that the proposed exploration by trenching is logical and justified, and recommends that the loan in full be approved.

The claims in Group III are about two miles west of the "tungsten" district. No tungsten mineralization is known on these claims and the applicant has agreed to withdraw them from consideration.

I concur with Tweto's recommendations.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

NANCY HENDERSON, 1905, LONGSHOT, WISCONSIN, ETC., CLAIMS
BOULDER TUNGSTEN DISTRICT, COLORADO
E. F. BONELLI, APPLICANT

DMEA DOCKET 2501

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Ogden Tweto
U. S. Geological Survey
Denver, Colorado

NANCY HENDERSON, 1905, LONGSHOT,
WISCONSIN, ETC., CLAIMS
BOULDER TUNGSTEN DISTRICT, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

E. F. Bonelli has applied for a DMEA loan for a project estimated by him to cost $4000 to explore covered areas on several claims in the Boulder tungsten district, Colorado, by trenching with a bulldozer. The claims are divided into 3 groups. Group I includes 3 non-contiguous claims, the 1905, Longshot, and Nancy Henderson, on the east slope of Hurricane Hill, in the western part of the tungsten district. Productive veins on all three claims extend into covered areas that are unexplored. Tungsten "float" can be found in all such areas, and in some places is relatively abundant. The proposed exploration by trenching therefore is logical and justified.

Group II consists of four contiguous claims, the Trail, Diamond, Dixie, and Wisconsin, about a mile east of Hurricane Hill. These claims are largely covered by heavy slope wash and alluvium, but there are indications of several veins, and ferberite float is relatively abundant. Exploration by trenching is warranted.

Group III of the application consists of five Crystal claims, which lie about two miles west of the tungsten district. As no tungsten is known on these claims, the applicant has consented to withdraw them from consideration.

The proposal to explore the claims of Groups I and II in the general areas delineated on the accompanying maps is recommended for approval.

As it is impossible to calculate costs without knowing the depth of trenching required and the ease or difficulty of excavation, it is recommended that the project be approved for the face amount of the application, $4000 (Government participation 75%, or $3000).

NANCY HENDERSON, 1905, LONGSHOT,

WISCONSIN, ETC., CLAIMS

BOULDER TUNGSTEN DISTRICT, COLORADO

E. F. BONELLI, APPLICANT

DMEA DOCKET 2501

Geologic Report

By Ogden Tweto
U. S. Geological Survey
Denver, Colorado

NANCY HENDERSON, 1905, LONGSHOT,
WISCONSIN, ETC., CLAIMS
BOULDER TUNGSTEN DISTRICT, COLORADO

INTRODUCTION

E. F. Bonelli has applied for a DMEA loan for a project estimated to cost $4000 to explore parts of several claims with bulldozer trenches. In his application, he has set the project up in three units, for three groups of claims. Group I includes the 1905, Longshot, and Nancy Henderson claims on the east slope of Hurricane Hill, in the western part of the Boulder tungsten district, Colorado. These three claims are not contiguous. Group II includes the Trail, Dixie, Wisconsin, and Diamond claims, a contiguous group in the Dry Lake district, about a mile east of Hurricane Hill. Group III includes the Crystal Nos. 1 to 5 claims, about two miles west of the tungsten district. Bonelli is owner of the three claims in Group I and owns a 15/18 interest in each of the four claims in Group II. He is owner of the five Crystal claims in Group III, but as no tungsten has been found on these claims, he has consented to withdraw them from consideration under the present application.

All seven claims in Groups I and II have been productive, but some, such as the 1905, Nancy Henderson, and Diamond, have been much more productive than the others. Parts of all the claims are covered with heavy wash and these parts have therefore remained unexplored. Several veins project into these covered areas, and in many places, "float," or small pebbles of ferberite, is found in considerable abundance in the wash. The proposal to explore such areas by trenching with a bulldozer is

logical and justified, although it is difficult to anticipate the number and length of trenches needed, and the depth and difficulty of trenching, and hence the cost in terms of lineal feet, cubic yards, or time. Considerable bulldozing has been done in this part of the district, with fairly good results, but much of it, including some minor trenching done by Bonelli last year on the 1905 and Nancy Henderson claims, was done with too-light, and generally mechanically weary, equipment, with the result that bedrock was not reached, and only the surface was churned up.

1905 CLAIM

The northeastern 300 feet of the 1905 claim (fig. 1) has been leased by Bonelli to the operators of the Vasco No. 1 mine, who recently found ore on a vein extending onto the 1905 claim. Excluding this leased area, two veins are known on the 1905 claim. One is probably the extension of the Vasco No. 1 vein, but if so, it is covered and unexplored for a distance of about 400 feet. The other vein, in the central part of the claim, was worked from the 1905 shaft, the collar of which is just south of the 1905 sideline, on the Black Metal Claim and vein. This vein is covered and unexplored northeast of a point opposite the 1905 shaft. Tungsten float is relatively abundant in the covered area between the Vasco No. 1 and the 1905 shafts. At places, 2 or 3 pebbles of ferberite, some up to an inch in diameter, are found to the square yard. Although some of this ferberite may have come down from higher on Hurricane Hill, a vein of ferberite ½ to 3 inches wide exposed in a pit now being worked 300 feet southwest of the Vasco No. 1 shaft suggests that at least a part of the float ore is of local origin. This vein was

discovered by bulldozer trenching last fall. A few trenches were attempted southwest of this pit, but the tractor used was too light and weak, and these trenches either did not reach bedrock, or exposed it for only a few feet.

Further trenching on the 1905 claim is warranted and herewith recommended. The approximate area to be trenched is indicated in figure 1. The location and extent of the individual trenches cannot be specified until trenching is under way, but assuming trenches at 40- to 50-foot intervals, possibly 1500 linear feet of trenches may be anticipated for this area. Judging by the abortive attempts made to trench this area last year, the average depth would probably be about 5 or 6 feet. This area is underlain by aplite and granite.

LONGSHOT

The Longshot claim lies along the west side of the Vasco tract, due south of the Vasco No. 1 shaft (fig. 1). Bonelli's chief objective on this claim is to trace and explore the Vasco No. 7 vein southwestward from the Longshot east sideline. This vein was highly productive in the Vasco No. 7 mine, 400 feet northeast of where it crosses the property line. Heavy quartz on the dumps of 3 or 4 old pits almost on the property line shows that the vein is present and strong there, but farther southwest it is covered. A little ferberite float is found in the covered area, and the proposed exploration by trenching seems worthwhile. The area to be trenched is indicated in figure 1; possibly 700 linear feet of trenches might be required for this area. Bonelli also wants to put one trench across a projected vein in a covered area on the southwest side

of the Hurricane Hill breccia reef and near the west sideline of the Longshot claim (fig. 1). Ferberite float is relatively abundant on the slope below the projection of this vein, and the trench seems worthwhile. Such a trench would be about 100 feet long.

NANCY HENDERSON

The Nancy Henderson claim contains four main veins, all of which have been productive (fig. 2). Ferberite float is relatively abundant in covered areas in the western and central parts of the claim, and Bonelli consequently proposes to explore these areas by trenching. Two trenches were dug near the western end of the claim late last fall, but the equipment was too light, and bedrock was exposed for a total distance of less than 50 feet in the two trenches, the combined length of which is about 200 feet. Bonelli would like to deepen these two trenches, and dig two others, as indicated in figure 2, a project justified by the presence of ferberite float, and the projection into the area of one of the productive Nancy Henderson veins. A trench across the central part of the claim, in a little alluvial basin between two groups of workings, is also proposed. The total length of trench for the Nancy Henderson claim should be about 600 feet.

TRAIL-DIAMOND-WISCONSIN-DIXIE GROUP

Because of overlapping prior claims, Bonelli has clear title to only a part of the ground covered by this group of claims, as indicated in figure 3. Although he has an interest in the Colorado Springs claim, the title is not clear, and he has therefore agreed to exclude from the

present exploration program that part of the Trail claim which is covered in common with the Colorado Springs claim. This leaves the area defined by the heavy line in figure 3. (The Spring claim is junior to the Diamond).

The bottom of a gulch runs down the length of the Trail claim, just south of the road shown in figure 3. Ferberite float is relatively abundant in the alluvium of this gulch, particularly in about the western third of the Trail claim. At places, several ferberite pebbles and granules can be found to the square yard, even though the gulch was combed by the early-day float pickers, and also has been placered in places. Float has doubtless been washed into the gulch from both sides and the head, but the concentration in the middle part of the gulch suggests a source vein or veins near that part of the gulch.

Bonelli proposes to trench one area on the Trail claim, and 3 on the Diamond claim, as shown in figure 3. Such a program is warranted by indications of several veins in these areas, as well as by the presence of ferberite float. A maximum of about 1800 linear feet of trench would be needed for this group of claims.

RECOMMENDATIONS

The applicant's proposal to explore the 1905, Longshot, and Nancy Henderson claims, and the Trail-Dixie-Diamond-Wisconsin group by bulldozer trenching is recommended for approval. The applicant has voluntarily withdrawn the Crystal group of claims from consideration. As it is almost impossible to calculate costs without knowing depths that will be required, and the ease or difficulty of excavating, it is recommended

that the application for a $4000-project be approved in the face amount (Government participation $3000) and that the applicant be instructed to keep cost accounts up to date and to keep in close touch with DMEA representatives so that the program can be revised as necessary in light of the costs for the early part.

It is further recommended that the contract stipulate that the trenching be done with a Caterpillar RD 8 tractor, or equivalent, approved as to condition by the DMEA.

DMEA 2501

NANCY HENDERSON, 1905, LONGMONT,
WISCONSIN, ET AL CLAIMS
BOULDER TUNGSTEN DISTRICT, COLORADO

Engineering Report

By R. L. Palmer
Mining Engineer
Bureau of Mines

DMEA 2501

NANCY HENDERSON, 1905, LONGSHOT,
WINDSWEEP, MY AL GLADE
BOULDER TUNGSTEN DISTRICT, COLORADO

ENGINEERING REPORT

By

R. L. Bolmer

E. F. Bonelli is applicant for a $4,000.00 Defense Minerals Exploration Administration loan to explore, by trenching with a bulldozer, several mining claims in the Boulder County tungsten district. A field examination of these claims was made by a representative of the U. S. Geological Survey. His report recommends about 4,700 feet of trenching on portions of five of the most promising claims. Recommendations were based principally upon past production from known veins on these five claims or upon productive veins on adjoining properties which can be projected onto Bonelli's ground.

The claims, for which trenching has been recommended, were inspected by Bureau of Mines personnel, May 27, 1952.

Trenching on the recommended sections of these claims is considered feasible. The exact depths to which overburden must be removed from these sections cannot be determined in advance; however, old trenches and pits nearby indicate an average depth of 4 to 6 feet. The overburden, for the most part, is a fine to coarse aluvium material. Most of it is pebble size but boulder size and larger material does occur. A few rocks, too large to be moved, could be avoided. Bedrock will be mostly granite or

schist which has weathered somewhat and whose surface is uneven. Little, if any, of the weathered bedrock could be removed with a bulldozer without first ripping or blasting it. Veins probably can be recognized without removing the weathered bedrock. The timber to be removed is small, mostly jack-pine or aspen, and should not cause trouble or delay.

A bulldozer, comparable in size and power to a modern Caterpillar D6, is the minimum sized equipment recommended. Bonelli has investigated the availability of such equipment in the immediate vicinity and has received two or three quotations for such work, mostly for D6 or D7 sizes at $10.00 per hour, operator included. The equipment is old and its condition unknown. The owners contacted are using the equipment on other jobs and could work for Bonelli part time only, some only on weekends.

Bonelli's estimate of 250 bulldozing hours includes work on several claims not recommended for trenching in the geological report. Because of unknown factors, an advance estimate is difficult to make. It is believed that at least 250 bulldozing hours will be required to complete the recommended 4,700 feet of trenching. A guaranteed job of such duration should interest small contractors outside the Nederland district; possibly those as far away as Denver might be interested. Such possibilities should be investigated and it is quite likely that a better price than $10.00 per hour might be obtained.

Bonelli has included 1,000 hours of common labor at $1.50 per hour in his original proposal. A single man will follow up the dozer with a shovel, cleaning up alluvium in irregularities of

the bedrock, and prospecting slightly any veins uncovered. It is doubtful if this much common labor will be necessary. About half of the proposed hours would be recommended. The remainder of the proposed labor cost probably could be spent to better advantage on bulldozer work. The project cost of $4,000.00 should be distributed as follows:

Approximately 300 bulldozer hours	$3,000.00
Approximately 666 hours common labor	$1,000.00.

The proposed trenching will require close supervision by someone on the job. Bonelli has indicated he will be available and should be qualified to locate the trenches and supervise the dozer work. He has no mining experience and intimated he does not intend to attempt to mine any ore discovered himself. Probably he would try to lease the property.

Trenching with a bulldozer is feasible in those areas selected for exploration by the Geological Survey. Unusual or difficult operations by this method are not anticipated. The five claims where work is recommended are all accessible from good roads. The 4,700 linear feet of trenching which has been recommended is estimated to cost $4,000.00. Approximately 75 percent of this amount, or $3,000.00, will be for bulldozing; the remainder will be spent on common labor.

The loan of $4,000.00 (Government participation--$3,000.00) is recommended for approval on the basis of U. S. Geological Survey findings and resultant report.

bam

DMEA 2501

NANCY HENDERSON, 1905, LONGSHOT, WISCONSIN, ET AL CLAIMS BOULDER TUNGSTEN DISTRICT, COLORADO

Engineering Report

By R. L. Bolmer
Mining Engineer
Bureau of Mines

DMEA 2501

NANCY HENDERSON, 1905, LONGMONT,
WISCONSIN, ET AL CLAIMS
BOULDER TUNGSTEN DISTRICT, COLORADO

ENGINEERING REPORT

By

R. L. Bolmer

E. F. Bonelli is applicant for a $4,000.00 Defense Minerals Exploration Administration loan to explore, by trenching with a bulldozer, several mining claims in the Boulder County tungsten district. A field examination of these claims was made by a representative of the U. S. Geological Survey. His report recommends about 4,700 feet of trenching on portions of five of the most promising claims. Recommendations were based principally upon past production from known veins on these five claims or upon productive veins on adjoining properties which can be projected onto Bonelli's ground.

The claims, for which trenching has been recommended, were inspected by Bureau of Mines personnel, May 27, 1952.

Trenching on the recommended sections of these claims is considered feasible. The exact depths to which overburden must be removed from these sections cannot be determined in advance; however, old trenches and pits nearby indicate an average depth of 4 to 6 feet. The overburden, for the most part, is a fine to coarse alluvium material. Most of it is pebble size but boulder size and larger material does occur. A few rocks, too large to be moved, could be avoided. Bedrock will be mostly granite or

schist which has weathered somewhat and whose surface is uneven. Little, if any, of the weathered bedrock could be removed with a bulldozer without first ripping or blasting it. Veins probably can be recognized without removing the weathered bedrock. The timber to be removed is small, mostly jack-pine or aspen, and should not cause trouble or delay.

A bulldozer, comparable in size and power to a modern Caterpillar D6, is the minimum sized equipment recommended. Bonelli has investigated the availability of such equipment in the immediate vicinity and has received two or three quotations for such work, mostly for D6 or D7 sizes at $10.00 per hour, operator included. The equipment is old and its condition unknown. The owners contacted are using the equipment on other jobs and could work for Bonelli part time only, some only on weekends.

Bonelli's estimate of 250 bulldozing hours includes work on several claims not recommended for trenching in the geological report. Because of unknown factors, an advance estimate is difficult to make. It is believed that at least 250 bulldozing hours will be required to complete the recommended 4,700 feet of trenching. A guaranteed job of such duration should interest small contractors outside the Nederland district; possibly those as far away as Denver might be interested. Such possibilities should be investigated and it is quite likely that a better price than $10.00 per hour might be obtained.

Bonelli has included 1,000 hours of common labor at $1.50 per hour in his original proposal. A single man will follow up the dozer with a shovel, cleaning up alluvium in irregularities of

the bedrock, and prospecting slightly any veins uncovered. It is doubtful if this much common labor will be necessary. About half of the proposed hours would be recommended. The remainder of the proposed labor cost probably could be spent to better advantage on bulldozer work. The project cost of $4,000.00 should be distributed as follows:

Approximately 300 bulldozer hours	$3,000.00
Approximately 666 hours common labor	$1,000.00.

The proposed trenching will require close supervision by someone on the job. Bonelli has indicated he will be available and should be qualified to locate the trenches and supervise the dozer work. He has no mining experience and intimated he does not intend to attempt to mine any ore discovered himself. Probably he would try to lease the property.

Trenching with a bulldozer is feasible in those areas selected for exploration by the Geological Survey. Unusual or difficult operations by this method are not anticipated. The five claims where work is recommended are all accessible from good roads. The 4,700 linear feet of trenching which has been recommended is estimated to cost $4,000.00. Approximately 75 percent of this amount, or $3,000.00, will be for bulldozing; the remainder will be spent on common labor.

The loan of $4,000.00 (Government participation--$3,000.00) is recommended for approval on the basis of U. S. Geological Survey findings and resultant report.

hmm

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

224 New Customhouse
Denver 2, Colorado

April 25, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Adm.
Attention: Code 210

From: Executive Officer, Field Team, Region IV

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate are DMA Form 3a and Forms MF-100 and MF-103 pertaining to the following application for Government assistance in exploration work.

E. F. Bonelli
335 Adams St.
Denver, Colorado

DMEA-2501

W. H. King

W. H. King for
J. H. East, Jr.

Enclosures

Returned to Field - One copy each of MF-103 and 100, with attachments.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 28 1952

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

Not To Be Filled in by Applicant

Docket No. DMEA-2501
Metal or Mineral
Date Received 4-28-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 28 1952

E. F. Bonelli
335 Adams Street
Denver, Colorado

Name and address of applicant

Date April 23, 1952

If you have already filed MF-100, give date filed April 23, 1952, type of assistance requested loan,

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.

(Name of company)	By S. F. Bonelli (Signature of authorized official)
4-23-52 (Date)	Owner (Title)

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

Supplementing Sheet 1 attached to form MF-103

E. F. Bonelli
335 Adams Street
Denver, Colorado

Project No. 1			
7. (a)	100 hrs. at $10.00	$1,000.00	
8.	333 hrs. at $1.50 (Rounded)	500.00	
	Estimated cost of Project No. 1		$1,500.00
Project No. II			
7. (a)	100 hrs. at $10.00	$1,000.00	
8.	333 hrs. at $1.50 (Rounded)	500.00	
	Estimated cost of Project No.II		1,500.00
Project No. III			
7. (a)	50 hrs. at $10.00	$ 500.00	
8.	333 hrs. at $1.50(Rounded)	500.00	
	Estimated cost of Project III		1,000.00
	Total estimated cost of Projects I, II, III		$ 4,000.00

Supplement to:
Form MF-103
(Revised June, 1951)

E. F. Bonelli
335 Adams Street
Denver, Colorado

1. Project No. I
   (a) Long Shot lode, Survey No. 19559, Sec. 7, Twp. 1 S. R. 72 W, Grand Island Mining District, Boulder County, Colorado.
   1905 Lode, Survey No. 19559, Sec. 7, Twp. 1. S. R. 72 W, Grand Island Mining District, Boulder County, Colorado(less part leased as shown on attached map)
   Nancy Henderson Lode, Survey No. 19559, Sec. 7, 1. S. R. 72 W. Grand Island Mining District, Boulder County, Colorado.
   Project No. II:
   15/18 Diamond Lode, Survey No. 19759; 15/18 Wisconsin Lode, Survey No. 19759; 15/18 Dixie Lode, Survey No. 19759; 15/18 Trail Lode, Survey No. 19759, all located in the NE$\frac{1}{4}$ Sec. 8, Twp. 1 S. R. 72 W.
   Project No. III:
   Crystal Lodes 1 - 2 - 3 - 4 - 5 - all in SE$\frac{1}{4}$ Sec. 10, Twp. 1 S. R. 73 W.
   (b) Owner.
   (c) Answered above in 1 (a).
   Note (1) Both are same. (2) Owner.

2.
   (a) Tungsten
   ★ (b) New prospect. Refer to Geological Survey Bulletin 922F for information pertaining to old workings in the area.

3.
   (a) Bulldoze surface veins on all properties.
   Project I, $1500.00, Project II $1500.00, Project III $1000.00.
   Total cost of projects, $4000.00
   (b) Start immediately after award of contract.

4. ~~Not applicable~~. Cannot answer because of overburden.

5. No existing facilities on projects.

6. None.

7.
   (a) Rent bulldozer at $10.00 per hour complete with operator and supplies.
   (b) None
   (c) None

8. Unskilled labor for trenching $1.50 per hour

9. None

10.
   (a) $1000.00
   (b) Yes

11. Applicant owns 15/18 of Diamond, Dixie, Wisconsin and Trail lodes, but will assume entire repayment of loan in event of any ore discovered.

★ Please return maps.

E F Bonelli

Form MF-100
(May 1951)

U. 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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2501

Date received 4-28-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 28 1952

E. F. Bonelli
335 Adams Street
Denver, Colorado

Name and address of applicant

Date April 23, 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		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	Total		x x x x x			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	$	$	$		
Preferred stock	$	$	$		

*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.

Supplement to:
Form MF-100
(May, 1951)

E. F. Bonelli
335 [illegible]ms Street
Denver, Colorado

1. - a. Tungsten
b. None

2. Project No. I
Long Shot, 1905(less part leased as shown on attached map), Nancy Henderson,
Project No. II
Undivided fifteen-eighteenths (15/18) interest in Diamond, Dixie, Wisconsin and Trail lodes.
Project No. III
Crystal lodes 1 - 2 - 3 - 4 - 5.
a - b - c present application is made for bulldozing and open trenching on above properties. Although there are some old trenches on ground, this application is for new prospect.

3.
a. Project No. I is two miles Northeast (NE) of Nederland, Colorado.
(Mill for handling ore is in Nederland, Colorado)
Project No. II is three miles NE of Nederland, Colorado.
Project No. III is three miles NW of Nederland, Colorado.
b. All in Grand Island mining district.
c. Project No. I is in Section Seven (7), Twp. One (1) South, Range Seventy-two (72) West.
Project No. II is in NE$\frac{1}{4}$ Sec. 8, Twp. 1 S. R. 72 W.
Project No. III is in SE$\frac{1}{4}$ Sec. 10, Twp. 1 S. R. 73W.
d. Boulder, Colorado

4.
a. Not in operation.
b. Owner

5. New prospect, begin operation June, 1952.

6.
a. Applicant has one year Geology University of Colorado, varied Government and business experience. Prospected properties in summer of 1951.
b. Advisor has degree in Geology, University of Colorado, Several years working experience in mines in area. Also prospected properties in projects summer of 1951.

7.
a. Prospected summer of 1951 and found good float on properties; bulldozed on 1905 claim, opened up vein, shipped 2100 lbs. of ore, averaged 30% WO_3. Suspended operation due to weather, but will resume when weather permits. Have leased out that part of 1905, as shown on attached map, and know there are as good prospects on other properties as new prospects.
b. Refer to Geological Survey Bulletin 922F by T. S. Lovering.
c. None available except applicants knowledge of float found and possibility of finding ore bearing veins.

8. Not applicable. Applicant is owner.

9. Not applicable.

10. No production.

E F Bonelli

Supplement to:
Form MF-100
(May, 1951)

E. F. Bonelli
335 Adams Street
Denver, Colorado

11. Not applicable.

12. New prospect, refer to Geological Survey Bulletin 922F by T. S. Lovering.
    b. None available
       (2) None available.
           None.
    c. Not applicable.

13. Good gravelled road to Nederland, Colorado, point of shipping supply and residence.

14. Not applicable.

15. Hire bulldozer with operator and all expenses paid, for $10.00 per hour.

16. Common labor, $1.50 per hour.

17. None existing
    None needed.

18. Applicant owns 15/18 of the Diamond, Dixie, Wisconsin and Trail lodes, but will assume entire repayment of loan in event of any ore discovered.

E. F. Bonelli

(*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)					
Indicated (probable)					

(*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.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

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.

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.

(Name of company)

By E. F. Bonelli
(Signature of authorized official)

4-23-52
(Date)

owner.
(Title)

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

FILE COPY 400
SURNAME:

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

Docket No. DMEA 2501 - Tungsten August 22, 1952

Selfridge

Iron and Ferro-Alloy Division, DMEA

Cancellation of application
Docket No. DMEA 2501 - Tungsten
N. F. Benelli
Boulder County, Colorado
Exploration assistance of $4,000.00 requested

The applicant requested $4,000.00 to trench by bulldozer and sample talus-covered ferberite veins on two different groups of claims. Of this amount $3,000.00 was set up for 300 hours of bulldozer trenching and $1,000.00 for 666 hours of hand labor for cleaning off bedrock and sampling.

The exploration program was approved in full by both members of the examining field team.

From a review of the docket, it is the opinion of the Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration, that the proposed exploration project was warranted.

The following data have been taken from the Monthly Reports, Mining Division, Region IV, Bureau of Mines:

May 21 to June 20, 1952 - Field examiners have prepared a preliminary report recommending the loan.

June 21 to July 20, 1952 - A contract is being prepared.

The application has been cancelled by the field team at the request of the applicant, and this docket is to be removed from the active files.

F. A. Rutledge

FARutledge'lm
8/22/52

cc: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
C. C. Selfridge
F. A. Rutledge

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

224 New Customhouse
Denver 2, Colorado

July 31, 1952

Mr. E. F. Bonelli
Nederland, Colorado

Dear Mr. Bonelli:

We have not received any reply to our letter dated June 25, 1952, in which we requested you to obtain signatures on the enclosed copies of Owner's Consent to Lien, Form MF-203.

We are assuming that you are no longer interested in exploration assistance and are placing your application in our inactive file.

Very truly yours,

W. H. King

W. H. King
Executive Officer
Field Team, Region IV

JFS:jp
cc Subj
Chron
Secretary to the Operating Committee (2)
WMTraver
AHKoschmann (2)

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

224 New Customhouse
Denver 2, Colorado

July 31, 1952

Mr. E. F. Bonelli
Nederland, Colorado

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Very truly yours,

W. H. King

W. H. King
Executive Officer
Field Team, Region IV

JFS:jp
cc Subj
Chron
Secretary to the Operating Committee (2)
WMTraver
AHKoschmann (2)

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

224 New Customhouse
Denver 2, Colorado

June 11, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2501, (Tungsten) E. F. Bonelli, Boulder County, Colorado

Exploration assistance in the amount of $4,000 has been approved and the contract will be prepared by this office.

Four copies of the final report will be forwarded you when contract is completed.

The original and one copy of Form 3b is attached.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 16 1952

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

224 New Customhouse
Denver 2, Colorado

June 11, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration
Attention: Code 210

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2501, (Tungsten) E. F. Bonelli, Boulder County, Colorado

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Four copies of the final report will be forwarded you when contract is completed.

The original and one copy of Form 3b is attached.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 16 1952

Mining Division
Region IV

June 11, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2501, (Tungsten) E. F. Bonelli, Boulder County, Colorado

Attached are nine copies of the final engineering report on DMEA-2501 by R. L. Bolmer of the Bureau of Mines.

The field examiners recommend the proposed exploration by trenching at a cost of $4,000.00.

We concur in their recommendation.

W. H. King

W. H. King

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 14 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Region IV

Building 20
Denver Federal Center
Denver 14, Colorado

June 4, 1952

Memorandum

To: Acting Chief, Mining Division, Region IV

From: Chief, Colorado Branch, Mining Division, Region IV

Subject: EMSA 2501 (Tungsten), Sunny Henderson, 1905, Longshot, Wisconsin et al claims, E. F. Bonelli, applicant; Boulder County, Colorado.

Please find enclosed the original and eight copies of a short engineering memorandum, by R. L. Belmer, on the subject docket to accompany a "Summary, Conclusions, and Recommendations" and geologic report prepared by Ogden Tweto, U. S. Geological Survey.

We have not followed the usual engineering report outline in this instance due to the fact, as stated by Tweto, that it is impossible to calculate costs accurately from the rather sketchy information available.

Belmer, on the basis of Tweto's findings, recommends about 300 hours of bulldozer trenching at a cost of $3,000.00 and some 666 hours of hand labor for cleaning off bedrock in the bulldozer trenches at a cost of $1,000.00, or a total of $4,000.00. I agree with Belmer's recommendations, but believe the project should be limited to the amount of bulldozer trenching and corresponding bedrock cleanup in hours suggested regardless of whether the 4,700 feet in five trenches is accomplished or not. Accordingly, the most favorable locations for the work should be attacked first.

The brochure submitted by the Region IV Field Team with their instructions to make a field examination is also enclosed. Your attention is called to the applicant's request that the maps accompanying the form be returned to him.

W. M. Traver, Jr.

W. M. Traver, Jr.

Enclosures

WMT/bam

cc: 8
General
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colo.

June 2, 1952

Memorandum

To : DMEA Field Team, Region IV

From : A. H. Koschmann

Subject: DMEA Docket 2501, E. F. Bonelli, Boulder Tungsten District, Colo.

Attached are 8 copies of the geological report by Ogden Tweto covering DMEA Docket 2501 (Tungsten), E. F. Bonelli, Boulder Tungsten District, Colorado.

The applicant proposes to spend $4,000 to explore by trenching with a bulldozer 3 groups of claims that are largely covered by slope wash and alluvium. On Group I, which includes 3 non-contiguous claims, productive veins extend into covered areas that are unexplored. On Group II there are indications of several veins. "Tungsten float", in places relatively abundant, is found in both areas. Tweto, therefore, feels that the proposed exploration by trenching is logical and justified, and recommends that the loan in full be approved.

The claims in Group III are about two miles west of the "tungsten" district. No tungsten mineralization is known on these claims and the applicant has agreed to withdraw them from consideration.

I concur with Tweto's recommendations.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

NANCY HENDERSON, 1905, LONGSHOT,

WISCONSIN, ETC., CLAIMS

BOULDER TUNGSTEN DISTRICT, COLORADO

E. F. BONELLI, APPLICANT

DMEA DOCKET 2501

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Ogden Tweto
U. S. Geological Survey
Denver, Colorado

NANCY HENDERSON, 1905, LONGSHOT,
WISCONSIN, ETC., CLAIMS
BOULDER TUNGSTEN DISTRICT, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

E. F. Bonelli has applied for a DMEA loan for a project estimated by him to cost $4000 to explore covered areas on several claims in the Boulder tungsten district, Colorado, by trenching with a bulldozer. The claims are divided into 3 groups. Group I includes 3 non-contiguous claims, the 1905, Longshot, and Nancy Henderson, on the east slope of Hurricane Hill, in the western part of the tungsten district. Productive veins on all three claims extend into covered areas that are unexplored. Tungsten "float" can be found in all such areas, and in some places is relatively abundant. The proposed exploration by trenching therefore is logical and justified.

Group II consists of four contiguous claims, the Trail, Diamond, Dixie, and Wisconsin, about a mile east of Hurricane Hill. These claims are largely covered by heavy slope wash and alluvium, but there are indications of several veins, and ferberite float is relatively abundant. Exploration by trenching is warranted.

Group III of the application consists of five Crystal claims, which lie about two miles west of the tungsten district. As no tungsten is known on these claims, the applicant has consented to withdraw them from consideration.

The proposal to explore the claims of Groups I and II in the general areas delineated on the accompanying maps is recommended for approval.

As it is impossible to calculate costs without knowing the depth of trenching required and the ease or difficulty of excavation, it is recommended that the project be approved for the face amount of the application, $4000 (Government participation 75%, or $3000).

NANCY HENDERSON, 1905, LONGSHOT,

WISCONSIN, ETC., CLAIMS

BOULDER TUNGSTEN DISTRICT, COLORADO

E. F. BONELLI, APPLICANT

DMEA DOCKET 2501

Geologic Report

By Ogden Tweto
U. S. Geological Survey
Denver, Colorado

NANCY HENDERSON, 1905, LONGSHOT,
WISCONSIN, ETC., CLAIMS
BOULDER TUNGSTEN DISTRICT, COLORADO

INTRODUCTION

E. F. Bonelli has applied for a DMEA loan for a project estimated to cost $4000 to explore parts of several claims with bulldozer trenches. In his application, he has set the project up in three units, for three groups of claims. Group I includes the 1905, Longshot, and Nancy Henderson claims on the east slope of Hurricane Hill, in the western part of the Boulder tungsten district, Colorado. These three claims are not contiguous. Group II includes the Trail, Dixie, Wisconsin, and Diamond claims, a contiguous group in the Dry Lake district, about a mile east of Hurricane Hill. Group III includes the Crystal Nos. 1 to 5 claims, about two miles west of the tungsten district. Bonelli is owner of the three claims in Group I and owns a 15/18 interest in each of the four claims in Group II. He is owner of the five Crystal claims in Group III, but as no tungsten has been found on these claims, he has consented to withdraw them from consideration under the present application.

All seven claims in Groups I and II have been productive, but some, such as the 1905, Nancy Henderson, and Diamond, have been much more productive than the others. Parts of all the claims are covered with heavy wash and these parts have therefore remained unexplored. Several veins project into these covered areas, and in many places, "float," or small pebbles of ferberite, is found in considerable abundance in the wash. The proposal to explore such areas by trenching with a bulldozer is

logical and justified, although it is difficult to anticipate the number and length of trenches needed, and the depth and difficulty of trenching, and hence the cost in terms of lineal feet, cubic yards, or time. Considerable bulldozing has been done in this part of the district, with fairly good resul s, out much of it, including some minor trenching done by Bonelli last year on the 1905 and Nancy Henderson claims, was done with too-light, and generally mechanically weary, equipment, with the result that bedrock was not reached, and only the surface was churned up.

1905 CLAIM

The northeastern 300 feet of the 1905 claim (fig. 1) has been leased by Bonelli to the operators of the Vasco No. 1 mine, who recently found ore on a vein extending onto the 1905 claim. Excluding this leased area, two veins are known on the 1905 claim. One is probably the extension of the Vasco No. 1 vein, but if so, it is covered and unexplored for a distance of about 400 feet. The other vein, in the central part of the claim, was worked from the 1905 shaft, the collar of which is just south of the 1905 sideline, on the Black Metal Claim and vein. This vein is covered and unexplored northeast of a point opposite the 1905 shaft. Tungsten float is relatively abundant in the covered area between the Vasco No. 1 and the 1905 shafts. At places, 2 or 3 pebbles of ferberite, some up to an inch in diameter, are found to the square yard. Although some of this ferberite may have come down from higher on Hurricane Hill, a vein of ferberite ½ to 3 inches wide exposed in a pit now being worked 300 feet southwest of the Vasco No. 1 shaft suggests that at least a part of the float ore is of local origin. This vein was

discovered by bulldozer trenching last fall. A few trenches were attempted southwest of this pit, but the tractor used was too light and weak, and these trenches either did not reach bedrock, or exposed it for only a few feet.

Further trenching on the 1905 claim is warranted and herewith recommended. The approximate area to be trenched is indicated in figure 1. The location and extent of the individual trenches cannot be specified until trenching is under way, but assuming trenches at 40- to 50-foot intervals, possibly 1500 linear feet of trenches may be anticipated for this area. Judging by the abortive attempts made to trench this area last year, the average depth would probably be about 5 or 6 feet. This area is underlain by aplite and granite.

LONGSHOT

The Longshot claim lies along the west side of the Vasco tract, due south of the Vasco No. 1 shaft (fig. 1). Bonelli's chief objective on this claim is to trace and explore the Vasco No. 7 vein southwestward from the Longshot east sideline. This vein was highly productive in the Vasco No. 7 mine, 400 feet northeast of where it crosses the property line. Heavy quartz on the dumps of 3 or 4 old pits almost on the property line shows that the vein is present and strong there, but farther southwest it is covered. A little ferberite float is found in the covered area, and the proposed exploration by trenching seems worthwhile. The area to be trenched is indicated in figure 1; possibly 700 linear feet of trenches might be required for this area. Bonelli also wants to put one trench across a projected vein in a covered area on the southwest side

of the Hurricane Hill breccia reef and near the west sideline of the Longshot claim (fig. 1). Ferberite float is relatively abundant on the slope below the projection of this vein, and the trench seems worthwhile. Such a trench would be about 100 feet long.

NANCY HENDERSON

The Nancy Henderson claim contains four main veins, all of which have been productive (fig. 2). Ferberite float is relatively abundant in covered areas in the western and central parts of the claim, and Bonelli consequently proposes to explore these areas by trenching. Two trenches were dug near the western end of the claim late last fall, but the equipment was too light, and bedrock was exposed for a total distance of less than 50 feet in the two trenches, the combined length of which is about 200 feet. Bonelli would like to deepen these two trenches, and dig two others, as indicated in figure 2, a project justified by the presence of ferberite float, and the projection into the area of one of the productive Nancy Henderson veins. A trench across the central part of the claim, in a little alluvial basin between two groups of workings, is also proposed. The total length of trench for the Nancy Henderson claim should be about 600 feet.

TRAIL-DIAMOND-WISCONSIN-DIXIE GROUP

Because of overlapping prior claims, Bonelli has clear title to only a part of the ground covered by this group of claims, as indicated in figure 3. Although he has an interest in the Colorado Springs claim, the title is not clear, and he has therefore agreed to exclude from the

present exploration program that part of the Trail claim which is covered in common with the Colorado Springs claim. This leaves the area defined by the heavy line in figure 3. (The Spring claim is junior to the Diamond).

The bottom of a gulch runs down the length of the Trail claim, just south of the road shown in figure 3. Ferberite float is relatively abundant in the alluvium of this gulch, particularly in about the western third of the Trail claim. At places, several ferberite pebbles and granules can be found to the square yard, even though the gulch was combed by the early-day float pickers, and also has been placered in places. Float has doubtless been washed into the gulch from both sides and the head, but the concentration in the middle part of the gulch suggests a source vein or veins near that part of the gulch.

Bonelli proposes to trench one area on the Trail claim, and 3 on the Diamond claim, as shown in figure 3. Such a program is warranted by indications of several veins in these areas, as well as by the presence of ferberite float. A maximum of about 1800 linear feet of trench would be needed for this group of claims.

RECOMMENDATIONS

The applicant's proposal to explore the 1905, Longshot, and Nancy Henderson claims, and the Trail-Dixie-Diamond-Wisconsin group by bulldozer trenching is recommended for approval. The applicant has voluntarily withdrawn the Crystal group of claims from consideration. As it is almost impossible to calculate costs without knowing depths that will be required, and the ease or difficulty of excavating, it is recommended

that the application for a $4000-project be approved in the face amount (Government participation $3000) and that the applicant be instructed to keep cost accounts up to date and to keep in close touch with DNEA representatives so that the program can be revised as necessary in light of the costs for the early part.

It is further recommended that the contract stipulate that the trenching be done with a Caterpillar RD 8 tractor, or equivalent, approved as to condition by the DNEA.

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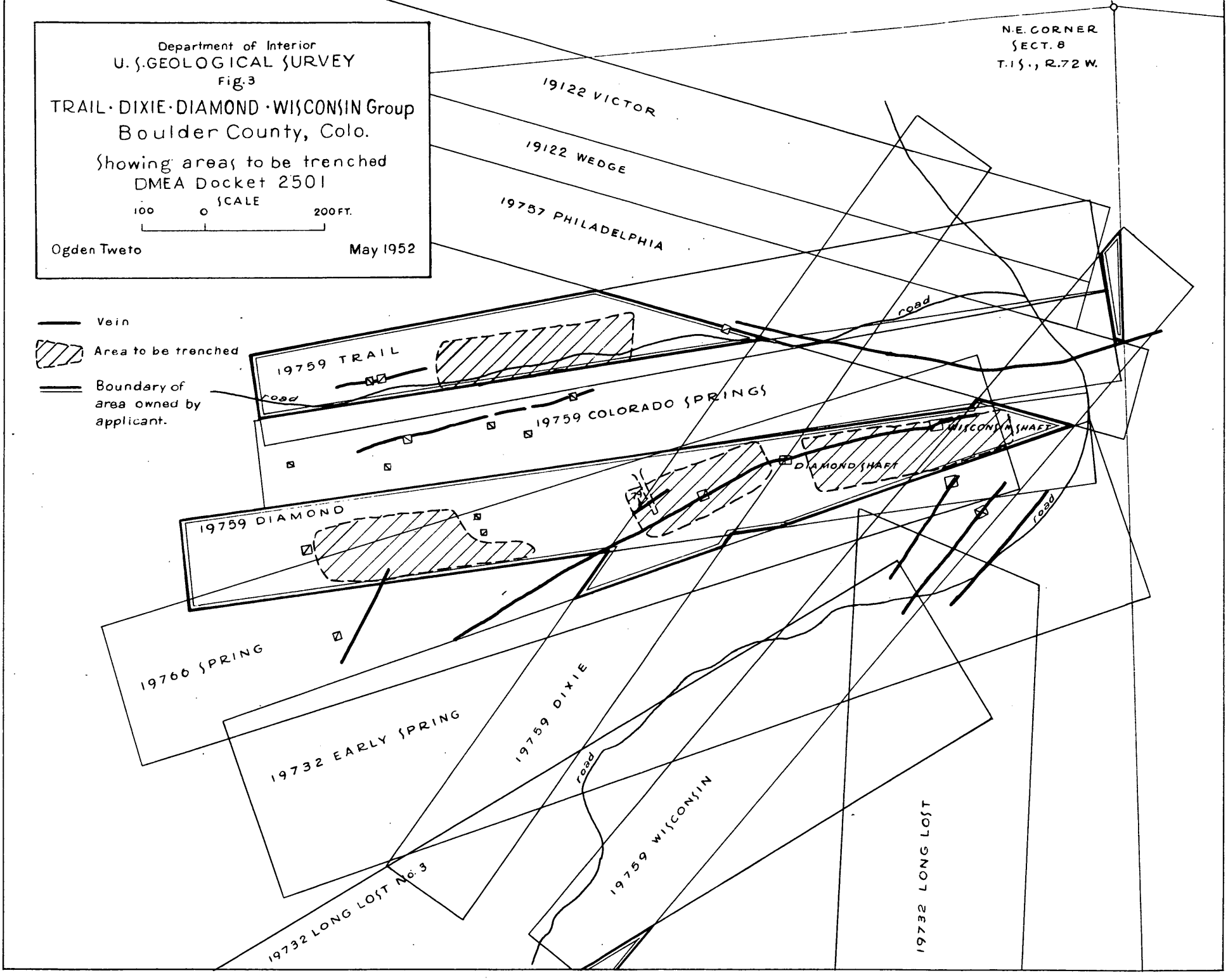
Department of Interior
U. S. GEOLOGICAL SURVEY
Fig. 3
TRAIL · DIXIE · DIAMOND · WISCONSIN Group
Boulder County, Colo.
Showing areas to be trenched
DMEA Docket 2501
SCALE
100 0 200 FT.
Ogden Tweto
May 1952
Vein
Area to be trenched
Boundary of area owned by applicant.
N.E. CORNER
SECT. 8
T. 1 S., R. 72 W.
19122 VICTOR
19122 WEDGE
19757 PHILADELPHIA
19759 TRAIL
road
19759 COLORADO SPRINGS
WISCONSIN SHAFT
DIAMOND SHAFT
19759 DIAMOND
road
19766 SPRING
19732 EARLY SPRING
19759 DIXIE
road
19759 WISCONSIN
19732 LONG LOST
19732 LONG LOST No. 3

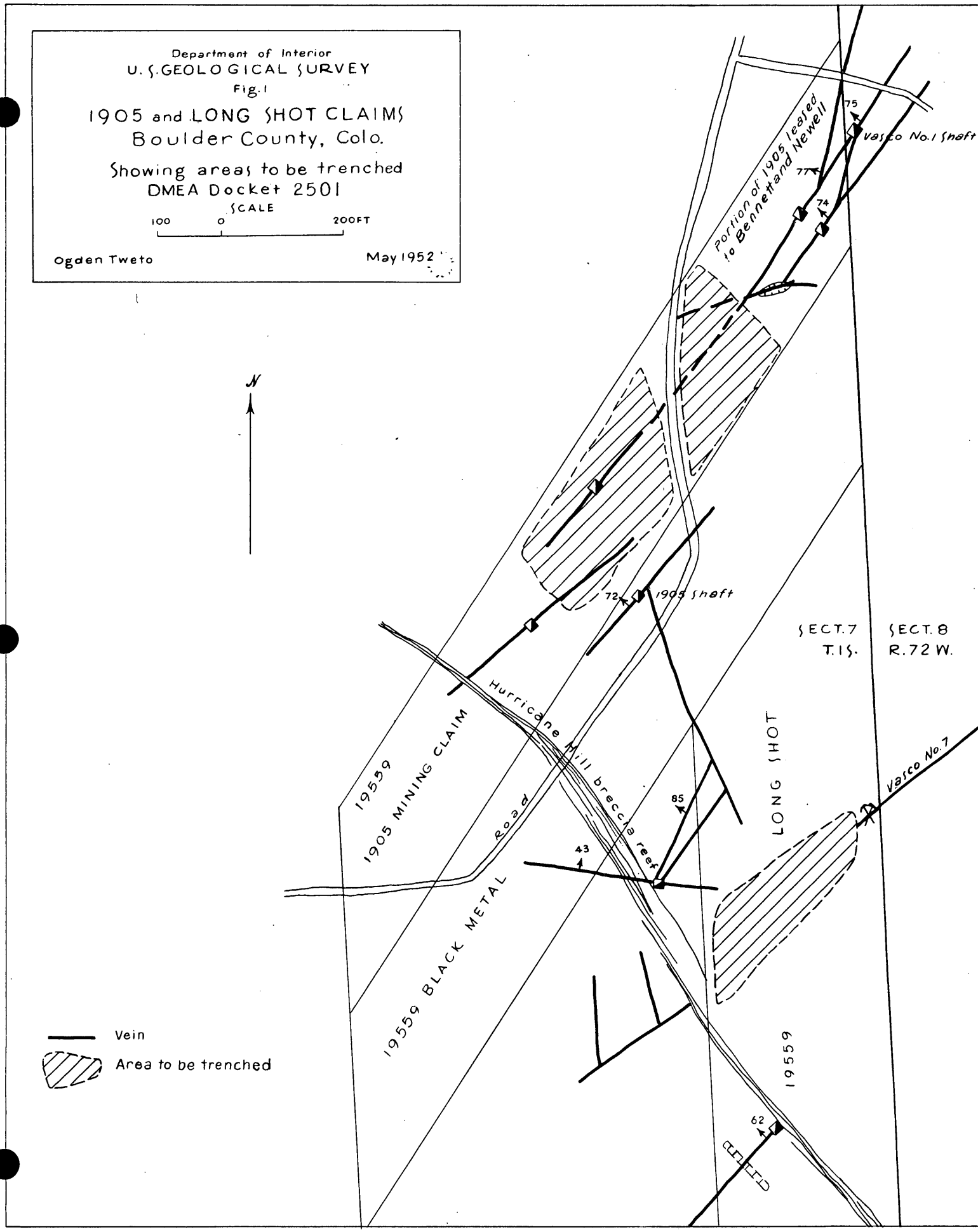
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Fig. 1
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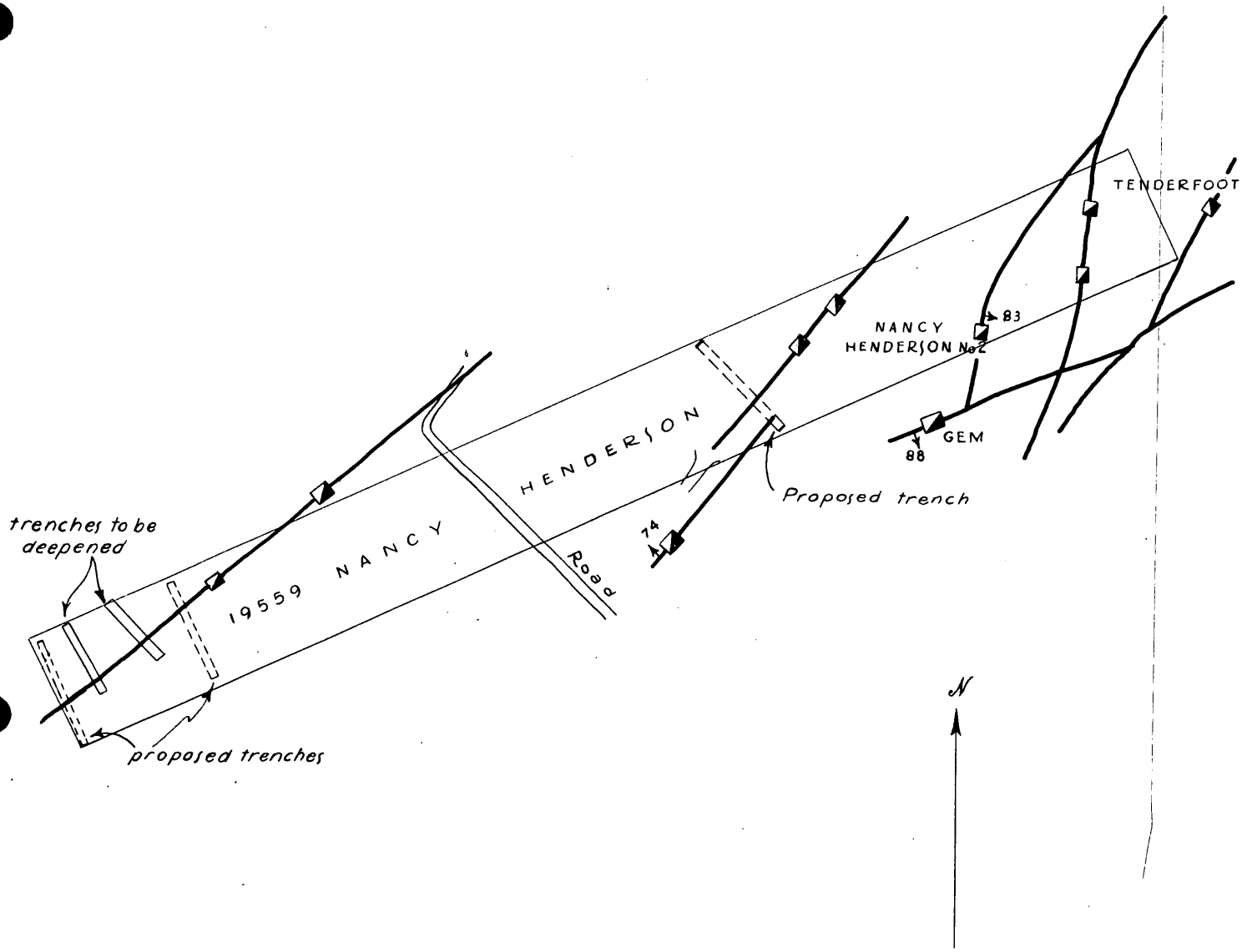
Boulder County, Colo.
Showing areas to be trenched
DMEA Docket 2501
SCALE
100 0 200FT
Ogden Tweto
May 1952
N
Portion of 1905 leased to Bennett and Newell
75
Vasco No. 1 Shaft
77
74
72
1905 Shaft
SECT. 7
T. 1 S.
SECT. 8
R. 72 W.
Hurricane Hill breccia reef
1955 9
1905 MINING CLAIM
Road
85
43
LONG SHOT
Vasco No. 7
1955 9 BLACK METAL
1955 9
62
Vein
Area to be trenched



Department of Interior
U. S. GEOLOGICAL SURVEY
Fig. 2

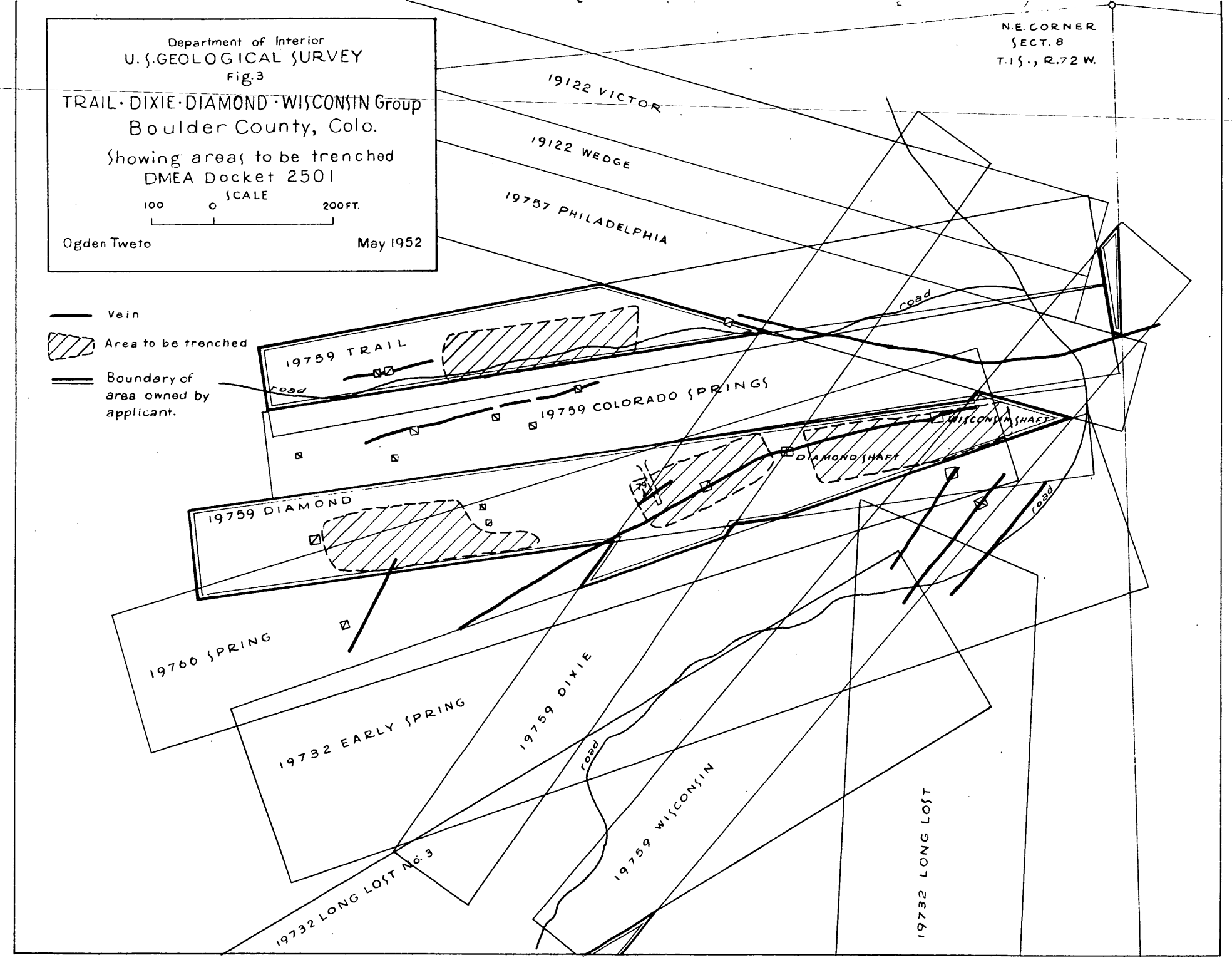
NANCY HENDERSON CLAIM
Boulder County, Colo.

Showing location of proposed trenches
DMEA Docket 2501

SCALE
100 0 200 FT.

Ogden Tweto

May 1952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Boundary of area owned by applicant.
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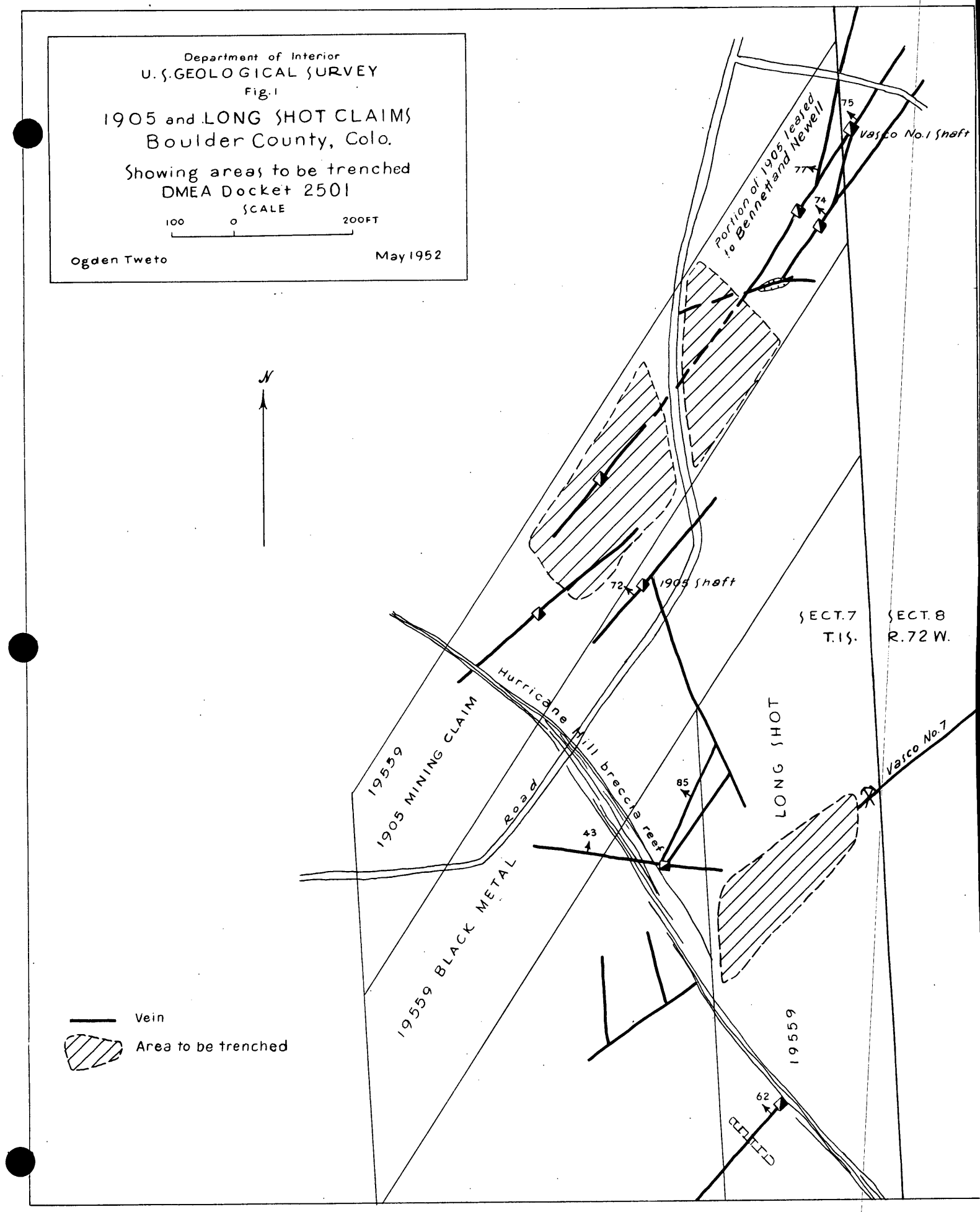
19732 LONG LOST No. 3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Boulder County, Colo.
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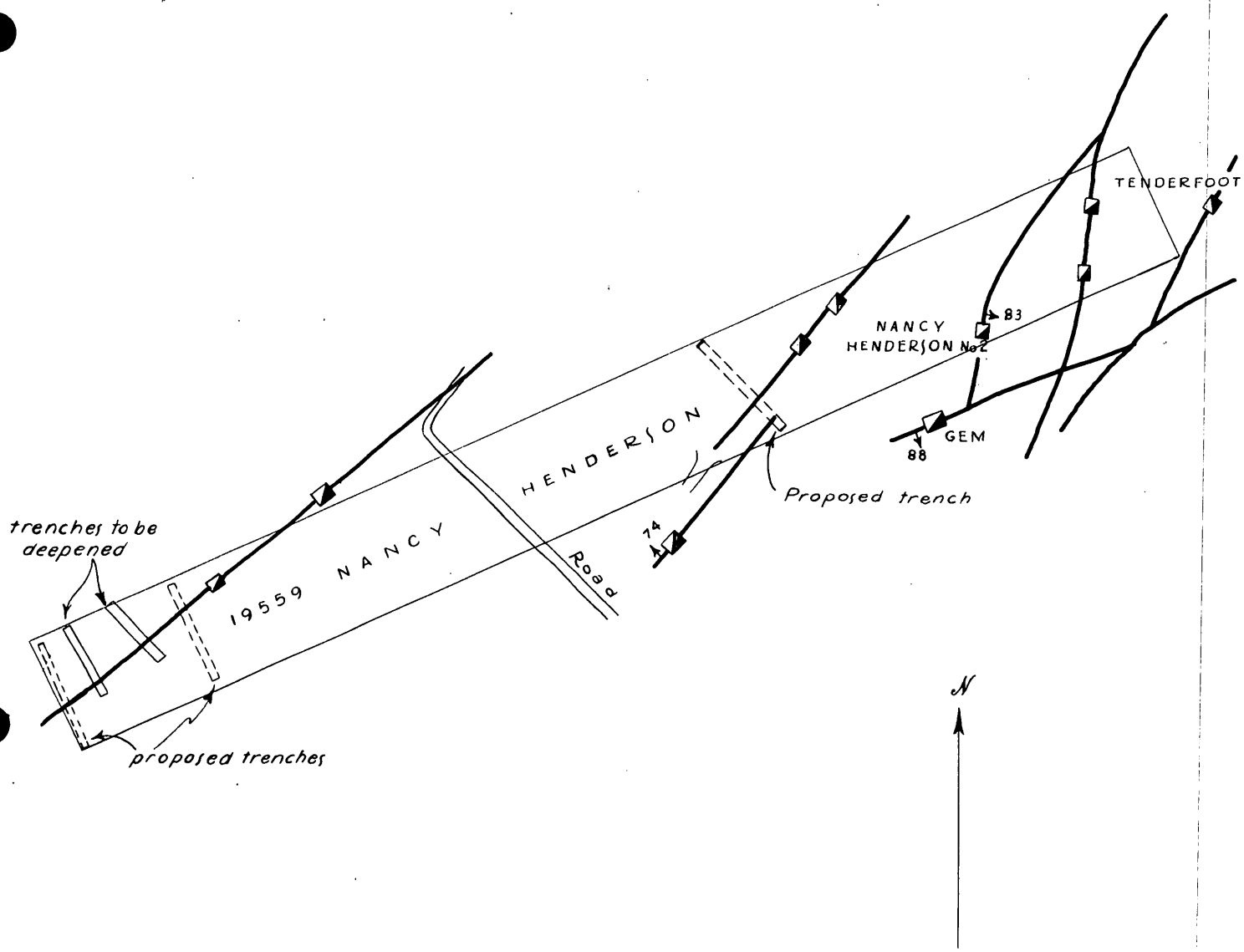

Department of Interior
U. S. GEOLOGICAL SURVEY
Fig. 2

NANCY HENDERSON CLAIM
Boulder County, Colo.

Showing location of proposed trenches
DMEA Docket 2501

SCALE
100 0 200 FT.

Ogden Tweto

May 1952