DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3642

DO NOT DETACH THIS SLIP

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

Cys to USBM, USGS, and Reg. II.

This document has been recorded as

Exploration

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

Routing Slip

To:	400	Date	1/18/55
To:	Oper Com	Date	2-2-55
To:	Oper Com	Date	4-8-55
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

APR 11 1955

Messrs. Charles M. Higginson
and Robert H. Meacham
P. O. Box 519
Benicia, California

Re: Docket No. DMEA 3642 - Tungsten
Last Chance Claim
Plumas County, California

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington relating to the above noted property have been carefully reviewed.

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

Careful study of all our information, although noting small amounts of tungsten mineralization along a contact zone on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise that your application for exploration assistance is denied.

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

As you requested, topographic map for the Chilcoot Quadrangle, California, is returned herewith.

TLChapman:foc 4-7-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
Messrs. Holliday, USBM
Enclosure Kiilsgaard, USGS

Sincerely yours,

G. O. Mittendorf

Administrator

April 7, 1955

Memorandum

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $7,461.00
Docket No. DMEA 3412 - Tungsten
Messrs. Charles M. Higginson and Robert H. Meehan
Lucky Strike Claim
Plumas County, California

The denial of the subject application by this Division is based on the following information:

1. The applicants requested exploration assistance in the amount of $7,461.00 to explore for tungsten on the Lucky Strike Mining claim, Plumas County, California.

2. The Lucky Strike claim, in Sec. 2, T. 23 N., R. 16 E., M.D.B. & M., Plumas County, California, is held by location by the applicants, Charles M. Higginson and Robert H. Meehan, P. O. Box 319, Benicia, California.

3. The mineralized area of the Lucky Strike claim is along a contact metamorphic zone of quartz mica schist which has been intruded by green-diorite and small aplite dikes. A narrow zone along this contact contains small quartz veins which show scattered scheelite crystals.

4. The only workings on the Lucky Strike claim are two shallow pits on the contact zone. The applicants proposed to explore the contact zone over a distance of 700 feet by bulldozer stripping and diamond drilling.

5. No production has been made from the property and each of three samples taken by the Field Team shows less than 0.03 percent WO_3.

The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines recommend that the application be denied.

TLChapman:fec
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

402

1605 Evans Avenue
Reno, Nevada

March 24, 1955

WSM

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3642 - Tungsten
Lucky Strike Claim
Plumas County, California

Reference is made to Mr. George C. Selfridge's letter of February 3, 1955 in which you requested a review or a field examination on above subject application.

Attached are four copies of a report, DMEA-3642, Lucky Strike Claims, Plumas County, California, (Tungsten) by John D. Warne, mining engineer, U. S. Bureau of Mines and Harold K. Stager, geologist, U. S. Geological Survey, dated March 24, 1955.

The report recommends that the application for exploration aid be denied owing to the fact that the geologic environment is not favorable for the formation of tungsten deposits of minable size or grade. Several samples taken assayed less than 0.03 percent WO_3.

Roscoe Smith and I approve of the report and do not believe an exploration loan is justified.

S. Ricker

Attachments
SRicker:gh
cc: H. C. Miller
R. M. Smith
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

DMEA-3642, Lucky Strike Claims

Plumas County, California

(Tungsten)

John D. Warne, Mining Engineer
U. S. Bureau of Mines

Harold K. Stager, Geologist
U. S. Geological Survey

March 24, 1955

EXAMINATION REPORT

Docket No.: DMEA-3642 (Tungsten)

Name and address of applicants: Charles M. Higginson
P. O. Box 519
Benicia, Calif.

Robert H. Meacham
355 East L Street
Benecia, Calif.

Name and location of property: Lucky Strike Claim,
Sec. 2, T. 23 N., R. 16 E.,
five miles north of Chilcoot,
Plumas County, California

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An examination of the Lucky Strike claim, located five miles north of Chilcoot, Plumas County, California (fig. 1) was made by an engineer of the Bureau of Mines and a geologist of the Geological Survey on February 17, 1955.

Very little prospecting work has been done on the claim, and the tungsten-bearing quartz veinlets which are exposed contain only trace amounts of tungsten (see fig. 2). The geologic environment is not favorable for the formation of tungsten deposits, and there is no geologic evidence to indicate the presence of deposits of minable size or grade in the area. The applicants ability to properly conduct an exploration project is questionable.

The application proposes to explore the claim by bulldozer stripping the area in the vicinity of his location holes along a quartz-mica schist and granodiorite contact zone; and to diamond drill six holes aggregating 700 feet in length along the contact. The total estimated cost of the program is $7,461.00. All of the work would be done on the Lucky Strike unpatented claim.

It is recommended that Government assistance under the DMEA program be denied.

LOCATION AND PHYSICAL FEATURES

The Lucky Strike Claim is situated in the foothill region along the eastern slope of the Sierra Nevada range at an elevation of about 5500 feet above sea level. It is located in Sec. 2, T. 23 N., R. 16 E., M.D.B.&M., Chilcoot Quadrangle, five miles north of Chilcoot, Plumas County, Calif. (fig. 1).

The immediate area is mountainous and covered with pine, underbrush, and grass. Suitable mine timber is available within ten miles from the property. Water is available from a creek within one mile from the claim.

Mine supplies could be obtained from Reno, Nev., 35 miles distant. The nearest shipping point is the Western Pacific Railroad at Chilcoot, Calif. No electric power is available near the property.

ACCESSIBILITY

From Reno, Nevada, the property is reached by traveling 23 miles north along U.S. Highway 395 to Hallelujah Junction, 7 miles westward along U. S. Highway 40 Alternate to Chilcoot, 5 miles north along a gravel county road, and then turning eastward on a private dirt road leading about one-half a mile to within a few hundred feet of the claim.

COMPETENCY OF APPLICANT

One of the applicants (Mr. C. M. Higginson) claims to have had several years mining experience in the Walker Copper mine.

No extensive prospecting work has been done on the claim; and exposures consist of only two shallow prospect holes which are caved and in poor condition for sampling purposes (fig. 2).

The financial responsibility of the applicants is unknown; and the application states that most of their share of the cost of the proposed work would consist of supervision and labor supplied by them.

Previous prospecting work has been insufficient to plan an exploration program, which is only vaguely conceived by the applicants; and their ability to property conduct a project is questionable.

APPLICANTS PROPERTY RIGHTS

The proposed exploration is planned on the Lucky Strike unpatented claim, which was recorded at Quincy, Plumas County, Cali-

fornia courthouse during August 1953 by the applicants. Book and page numbers of the recording were not available from the applicants.

DESCRIPTION OF PROPERTY

No surface facilities, equipment or access roads to the claim exist. Development consists of two shallow prospect pits shown in Figure 2.

GEOLOGY

The Lucky Strike claim is underlain by quartz-mica schist that has been intruded and metamorphosed by granodiorite.

Exposures on the claim are poor and there are few outcrops in the surrounding area. The quartz-mica schist, where exposed by shallow trenches along the granodiorite contact, is highly weathered and decomposed. Foliation in the schist strikes north and dips about 80 degrees west.

The granodiorite contains a high percentage of biotite and hornblende near the schist contact. Aplitic zones near the contact contain small crystals of tourmaline and epidote.

Abundant boulders of volcanic rock (andesite or latite) are present in the slope wash over most of the claim, but no outcrops of this rock were seen.

ORE DEPOSITS

The scheelite-bearing quartz veinlets on the Lucky Strike claim are confined to a zone about 4 feet wide along the contact between quartz-mica schist and granodiorite.

Traces of scheelite occur with pyrite, galena, tourmaline and hornblende in thin quartz-rich veinlets in the contact zone. These veinlets are from a few inches to 1 foot wide and have been exposed in two shallow pits about 20 feet apart near the center of the claim (fig. 2). Only trace amounts of scheelite are visible in the vein material when examined under ultraviolet light. Three samples taken from the best exposures contained less than 0.03 percent WO_3.

There has been no ore produced from this property.

ORE RESERVES

There are no measured, indicated, or inferred ore reserves.

SAMPLING

Three samples were taken in connection with this examination as shown in fig. 2.

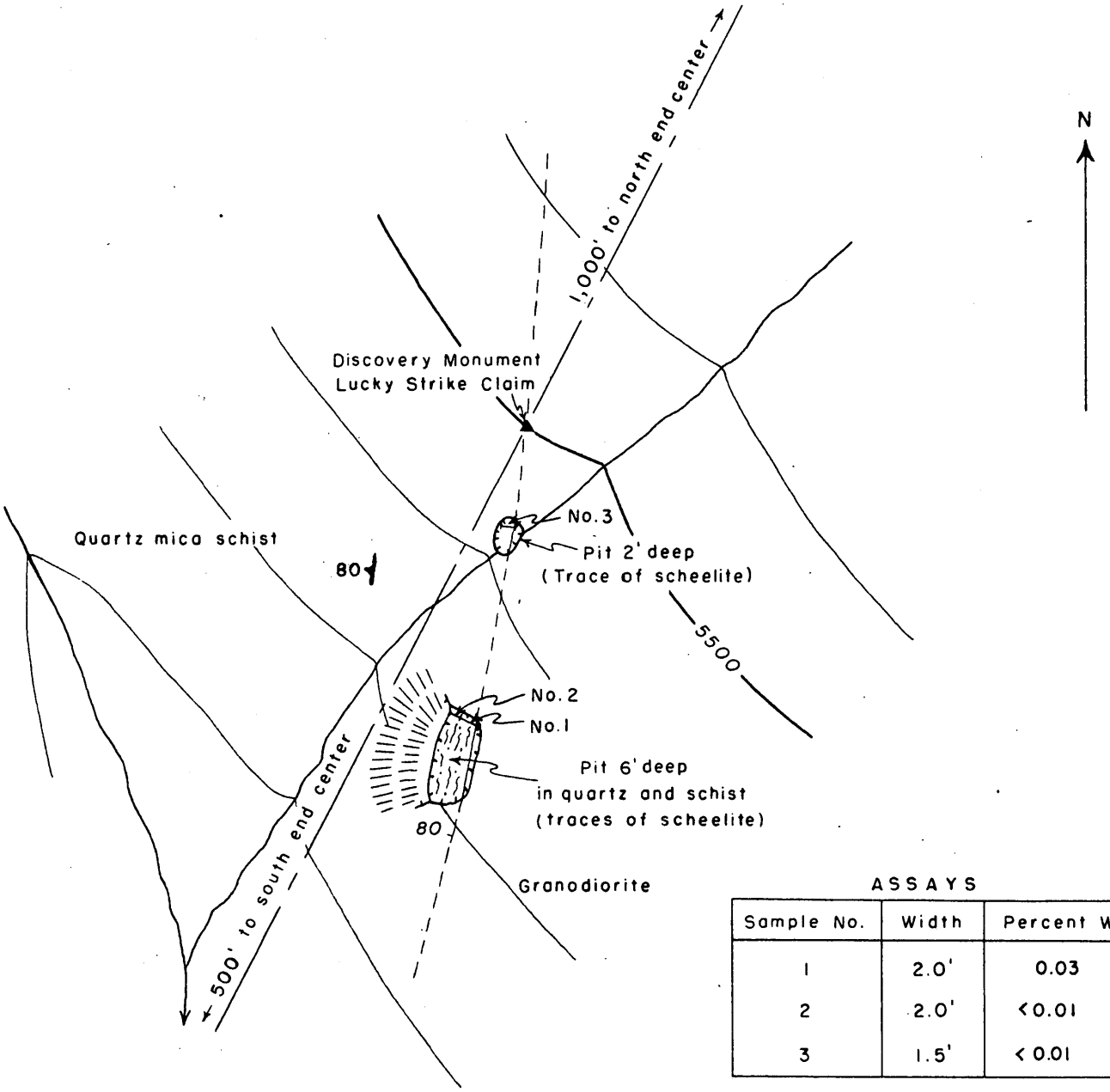
APPLICANTS PROPOSAL

The applicants propose a program consisting of bulldozer stripping followed by diamond drilling six holes aggregating 700 feet in length, to expose the contact zone along the surface and to explore to about 100 feet below the surface. Six diamond drill angle holes

would be located about 100 feet apart along a draw, which may parallel the quartz-mica schist and granodiorite contact zone. No definite locations for the holes were given. Costs and quantities of work applied for are as follows:

Description	Cost
Bulldozer operations - 48 hours	$ 914.00*
Diamond drilling, 700 feet @ $6.50/ft.	4,550.00
Labor and supervision	1,280.00*
Misc. supplies, equipment, assaying, etc.	717.00
Total estimated cost of project	$7,461.00

*Total Cost



ASSAYS

Sample No.	Width	Percent WO_3
1	2.0'	0.03
2	2.0'	<0.01
3	1.5'	<0.01

< Less than

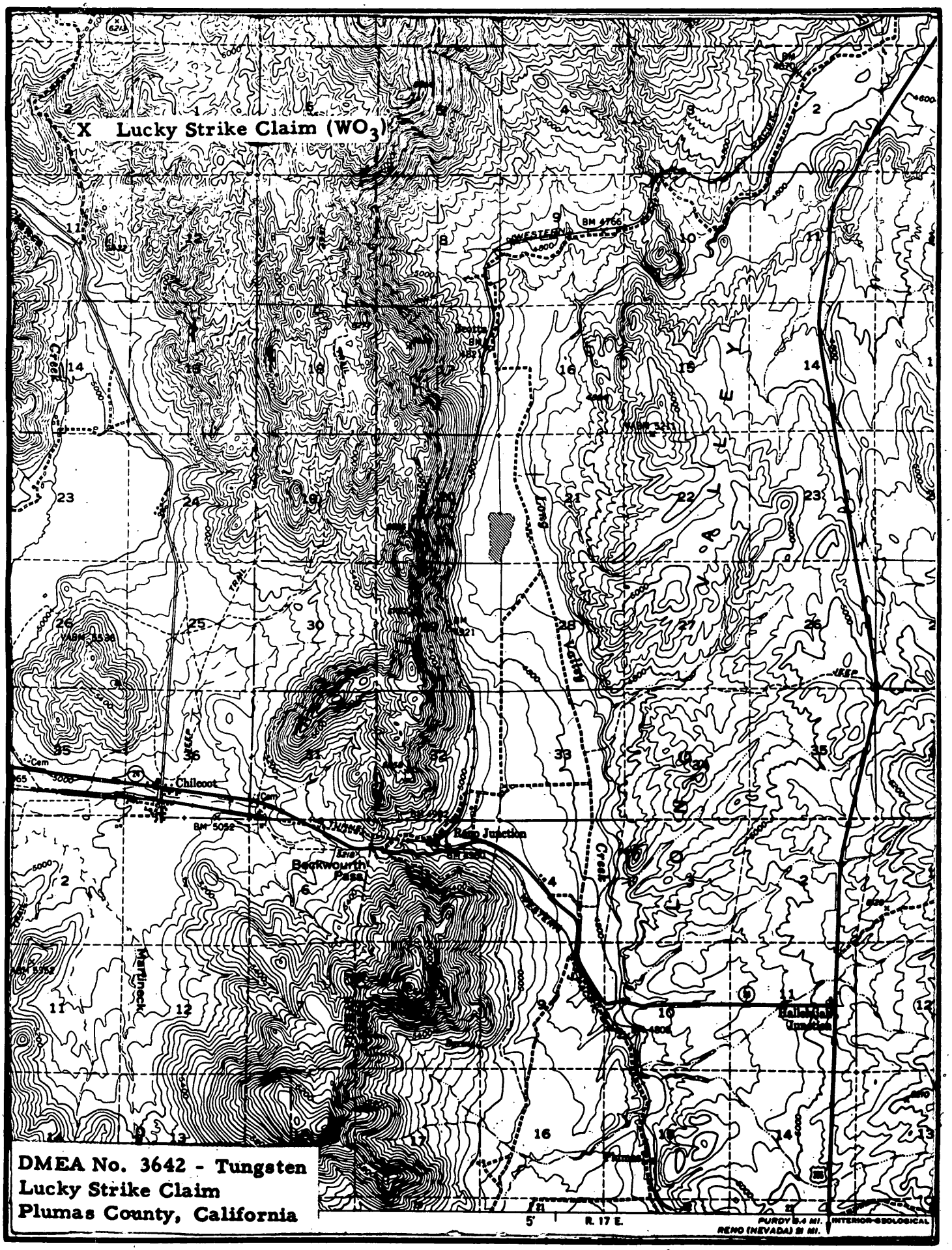
GEOLOGIC SKETCH MAP OF THE LUCKY STRIKE TUNGSTEN PROSPECT
PLUMAS COUNTY, CALIFORNIA

20 0 20 40 FEET

Contour interval 5 feet

Datum approximate

Figure 2



DMEA No. 3642 - Tungsten
Lucky Strike Claim
Plumas County, California

FIG. 1 LOCATION MAP

IN REPLY REFER TO:

400

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

March 31, 1955

Re: DMEA-3642
Higginson & Meacham
Lucky Strike claim
Plumas County, Calif.
$7,461 - Tungsten

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the Field Team, and recommend that the subject application be denied.

The three samples taken are far below ore grade and there is no suggestion that higher grade material is present.

R. D. Trace

RDTrace:hlm
G-3/31/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513 Interior

400

FEB 3 1955

Messrs. Higginson and Meacham
P. O. Box 539
Benicia, California

Re: Docket No. DMEA 364.2 - Tungsten
Lucky Strike Claim
Plumas County, California

Gentlemen:

The above docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. Spangler Richer, Executive Officer, DMEA Field Team, Region II, 420 Custom House, 555 Battery Street, San Francisco 11, California, for further consideration and possibly a field examination of the property.

Should a field examination be required, any assistance that you can give the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman:fcc
1-31-55
cc to: Docket
Code 400 ✓
Adm. Reading File
Operating Comm.
FT. REG. II
W. McBride, USBM
T. H. Kiilsgaard, USGS

100

FEB 3 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region II
400 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3642 - Tungsten
Lucky Strike Claim
Plumas County, California

Dear Mr. Richer:

The above docketed application for exploration assistance is being referred to your office for a field examination, or for a review in case you already have sufficient information on the property.

Two copies of a pulsvert measurements dated January 24, 1955, by E. L. Hewcomb, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

APPROVED:

J. H. Hedges

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

TLShapman:foc
1-31-55
cc to: Docket
Code 100
Adm. Reading File
Operating Committee
FT. REG. II
W. McInnis, USBM
T. H. Kiilsgaard, USGS

IN REPLY REFER TO:

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

402

RECEIVED
JAN 25 1955

January 24, 1955

Re: DMEA-3542
Charles M. Higginson
(Lucky Strike Claim)
Plumas Co., Calif.
$7,461 - Tungsten

Memorandum

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

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

Subject: Review of application

The operator proposes to drill 6 holes to test about 550 feet of strike length of a scheelite-bearing quartz vein.

We do not have any pertinent information available in our files on the Lucky Strike claim.

A mineralogical examination by the California Bureau of Mines of two specimens indicated small amounts of scheelite were present in Specimen No. 1. If this material was characteristic of the mineralization on the Lucky Strike vein, then exploration assistance probably is not warranted.

I recommend the application be referred to the Field Team for their review and recommendations. It is possible that sufficient data is available in their files to appraise the proposal without an on-site examination. If an examination is necessary, the feasibility of trenching should be considered.

E. L. Newcomb

ELNewcomb:hlm
G-1/24/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513 Interior

DOCKET
SURNAME

400 Chapman
Martin
Holliday
Newcomb
Kiilsgaard
Hedges
Selfridge

APR 1 1 1955

Messrs. Charles M. Higginson
and Robert H. Meacham
P. O. Box 519
Bentonia, California

Re: Docket No. DMEA 3642 - Tungsten
Last Chance Claim
Fresno County, California

Gentlemen:

Your application for aid for an exploration project and other data available to us in Washington relating to the above noted property have been carefully reviewed.

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

Careful study of all our information, although noting small amounts of tungsten mineralization along a contact zone on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise that your application for exploration assistance is denied.

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

As you requested, topographic map for the Chilcoot Quadrangle, California, is returned herewith.

TLChapman:fcc 4-7-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. III
Messrs. Holliday, USBM
Kiilsgaard, USGS

Sincerely yours,

C. O. Mittendorf

Administrator

R.C.B.

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

April 7, 1955

Memorandum

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $7,461.00
Docket No. DMEA 3642 - Tungsten
Messrs. Charles M. Higginson and Robert H. Meacham
Lucky Strike Claim
Plumas County, California

The denial of the subject application by this Division is based on the following information:

1. The applicants requested exploration assistance in the amount of $7,461.00 to explore for tungsten on the Lucky Strike Mining claim, Plumas County, California.

2. The Lucky Strike claim, in Sec. 2, T. 23 N., R. 16 E., M.D.B. & M., Plumas County, California, is held by location by the applicants, Charles W. Higginson and Robert H. Meacham, P. O. Box 519, Benicia, California.

3. The mineralized area of the Lucky Strike claim is along a contact metamorphic zone of quartz mica schist which has been intruded by grano-diorite and small aplite dikes. A narrow zone along this contact contains small quartz veins which show scattered scheelite crystals.

4. The only workings on the Lucky Strike claim are two shallow pits on the contact zone. The applicants proposed to explore the contact zone over a distance of 700 feet by bulldozer stripping and diamond drilling.

5. No production has been made from the property and each of three samples taken by the Field Team shows less than 0.03 percent WO_3.

The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines recommend that the application be denied.

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

400

DOCKET SURNAME
Chapman
Martin
Holliday
Newcomb

April 7, 1955

Memorandum

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of application for exploration assistance in the amount of $7,461.00
Docket No. DMEA 3642 - Tungsten
Messrs. Charles M. Higginson and Robert M. Meacham
Lucky Strike Claim
Plumas County, California

The denial of the subject application by this Division is based on the following information:

1. The applicants requested exploration assistance in the amount of $7,461.00 to explore for tungsten on the Lucky Strike Mining claim, Plumas County, California.

2. The Lucky Strike claim, in Sec. 2, T. 23 N., R. 16 E., M.D.B. & M., Plumas County, California, is held by location by the applicants, Charles M. Higginson and Robert M. Meacham, P. O. Box 519, Berkeley, California.

3. The mineralized area of the Lucky Strike claim is along a contact metamorphic zone of quartz mica schist which has been intruded by green-diorite and small aplite dikes. A narrow zone along this contact contains small quartz veins which show scattered scheelite crystals.

4. The only workings on the Lucky Strike claim are two shallow pits on the contact zone. The applicants proposed to explore the contact zone over a distance of 700 feet by bulldozer stripping and diamond drilling.

5. No production has been made from the property and each of three samples taken by the Field Team shows less than 0.03 percent WO_3.

The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines recommend that the application be denied.

TLChapman:fec
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

Docket

IN REPLY REFER TO:

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

March 31, 1955

Re: DMEA-3642
Higginson & Meacham
Lucky Strike claim
Plumas County, Calif.
$7,461 - Tungsten

WSM

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the Field Team, and recommend that the subject application be denied.

The three samples taken are far below ore grade and there is no suggestion that higher grade material is present.

R. D. Trace

R. D. Trace

400

IN REPLY REFER TO:

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

March 31, 1955

Re: DMEA-3642
Higginson & Meacham
Lucky Strike claim
Plumas County, Calif.
$7,461 - Tungsten

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the Field Team, and recommend that the subject application be denied.

The three samples taken are far below ore grade and there is no suggestion that higher grade material is present.

R. D. Trace

RDTrace:hlm
G-3/31/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513 Interior

IN REPLY REFER TO:

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

March 31, 1955

Re: DMEA-3042
Higginson & Meacham
Lucky Strike claim
Plumas County, Calif.
$7,401 - Tungsten

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of Field Team report

I concur with the Field Team, and recommend that the subject application be denied.

The three samples taken are far below ore grade and there is no suggestion that higher grade material is present.

R. D. Trace

RDTrace:hlm
G-3/31/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513 Interior

d m e a

Docket

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

MAR 28 1955

Air Mail

1605 Evans Avenue
Reno, Nevada

March 24, 1955

Memorandum

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

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3642 - Tungsten
Lucky Strike Claim
Plumas County, California

Reference is made to Mr. George C. Selfridge's letter of February 3, 1955 in which you requested a review or a field examination on above subject application.

Attached are four copies of a report, DMEA-3642, Lucky Strike Claims, Plumas County, California, (Tungsten) by John D. Warne, mining engineer, U. S. Bureau of Mines and Harold K. Stager, geologist, U. S. Geological Survey, dated March 24, 1955.

The report recommends that the application for exploration aid be denied owing to the fact that the geologic environment is not favorable for the formation of tungsten deposits of minable size or grade. Several samples taken assayed less than 0.03 percent WO_3.

Roscoe Smith and I approve of the report and do not believe an exploration loan is justified.

S. Ricker

S. Ricker

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
4-1-55
(Date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

DMEA-3642, Lucky Strike Claims

Plumas County, California

(Tungsten)

John D. Warne, Mining Engineer
U. S. Bureau of Mines

Harold K. Stager, Geologist
U. S. Geological Survey

March 24, 1955

Reviewed by
DMEA OPERATING COMMITTEE
4-1-55
(date)

EXAMINATION REPORT

RECEIVED
MAR 28 1955

Docket No.: DMEA-3642 (Tungsten)

Name and address of applicants: Charles M. Higginson
P. O. Box 519
Benicia, Calif.

Robert H. Meacham
355 East L Street
Benecia, Calif.

Name and location of property: Lucky Strike Claim,
Sec. 2, T. 23 N., R. 16 E.,
five miles north of Chilcoot,
Plumas County, California

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

An examination of the Lucky Strike claim, located five miles north of Chilcoot, Plumas County, California (fig. 1) was made by an engineer of the Bureau of Mines and a geologist of the Geological Survey on February 17, 1955.

Very little prospecting work has been done on the claim, and the tungsten-bearing quartz veinlets which are exposed contain only trace amounts of tungsten (see fig. 2). The geologic environment is not favorable for the formation of tungsten deposits, and there is no geologic evidence to indicate the presence of deposits of minable size or grade in the area. The applicants ability to properly conduct an exploration project is questionable.

The application proposes to explore the claim by bulldozer stripping the area in the vicinity of his location holes along a quartz-mica schist and granodiorite contact zone; and to diamond drill six holes aggregating 700 feet in length along the contact. The total estimated cost of the program is $7,461.00. All of the work would be done on the Lucky Strike unpatented claim.

It is recommended that Government assistance under the DMEA program be denied.

LOCATION AND PHYSICAL FEATURES

The Lucky Strike Claim is situated in the foothill region along the eastern slope of the Sierra Nevada range at an elevation of about 5500 feet above sea level. It is located in Sec. 2, T. 23 N., R. 16 E., M.D.B.&M., Chilcoot Quadrangle, five miles north of Chilcoot, Plumas County, Calif. (fig. 1).

The immediate area is mountainous and covered with pine, underbrush, and grass. Suitable mine timber is available within ten miles from the property. Water is available from a creek within one mile from the claim.

Mine supplies could be obtained from Reno, Nev., 35 miles distant. The nearest shipping point is the Western Pacific Railroad at Chilcoot, Calif. No electric power is available near the property.

ACCESSIBILITY

From Reno, Nevada, the property is reached by traveling 23 miles north along U.S. Highway 395 to Hallelujah Junction, 7 miles westward along U. S. Highway 40 Alternate to Chilcoot, 5 miles north along a gravel county road, and then turning eastward on a private dirt road leading about one-half a mile to within a few hundred feet of the claim.

COMPETENCY OF APPLICANT

One of the applicants (Mr. C. M. Higginson) claims to have had several years mining experience in the Walker Copper mine.

No extensive prospecting work has been done on the claim; and exposures consist of only two shallow prospect holes which are caved and in poor condition for sampling purposes (fig. 2).

The financial responsibility of the applicants is unknown; and the application states that most of their share of the cost of the proposed work would consist of supervision and labor supplied by them.

Previous prospecting work has been insufficient to plan an exploration program, which is only vaguely conceived by the applicants; and their ability to property conduct a project is questionable.

APPLICANTS PROPERTY RIGHTS

The proposed exploration is planned on the Lucky Strike unpatented claim, which was recorded at Quincy, Plumas County, Cali-

fornia courthouse during August 1953 by the applicants. Book and page numbers of the recording were not available from the applicants.

DESCRIPTION OF PROPERTY

No surface facilities, equipment or access roads to the claim exist. Development consists of two shallow prospect pits shown in Figure 2.

GEOLOGY

The Lucky Strike claim is underlain by quartz-mica schist that has been intruded and metamorphosed by granodiorite.

Exposures on the claim are poor and there are few outcrops in the surrounding area. The quartz-mica schist, where exposed by shallow trenches along the granodiorite contact, is highly weathered and decomposed. Foliation in the schist strikes north and dips about 80 degrees west.

The granodiorite contains a high percentage of biotite and hornblende near the schist contact. Aplitic zones near the contact contain small crystals of tourmaline and epidote.

Abundant boulders of volcanic rock (andesite or latite) are present in the slope wash over most of the claim, but no outcrops of this rock were seen.

ORE DEPOSITS

The scheelite-bearing quartz veinlets on the Lucky Strike claim are confined to a zone about 4 feet wide along the contact between quartz-mica schist and granodiorite.

Traces of scheelite occur with pyrite, galena, tourmaline and hornblende in thin quartz-rich veinlets in the contact zone. These veinlets are from a few inches to 1 foot wide and have been exposed in two shallow pits about 20 feet apart near the center of the claim (fig. 2). Only trace amounts of scheelite are visible in the vein material when examined under ultraviolet light. Three samples taken from the best exposures contained less than 0.03 percent WO_3.

There has been no ore produced from this property.

ORE RESERVES

There are no measured, indicated, or inferred ore reserves.

SAMPLING

Three samples were taken in connection with this examination as shown in fig. 2.

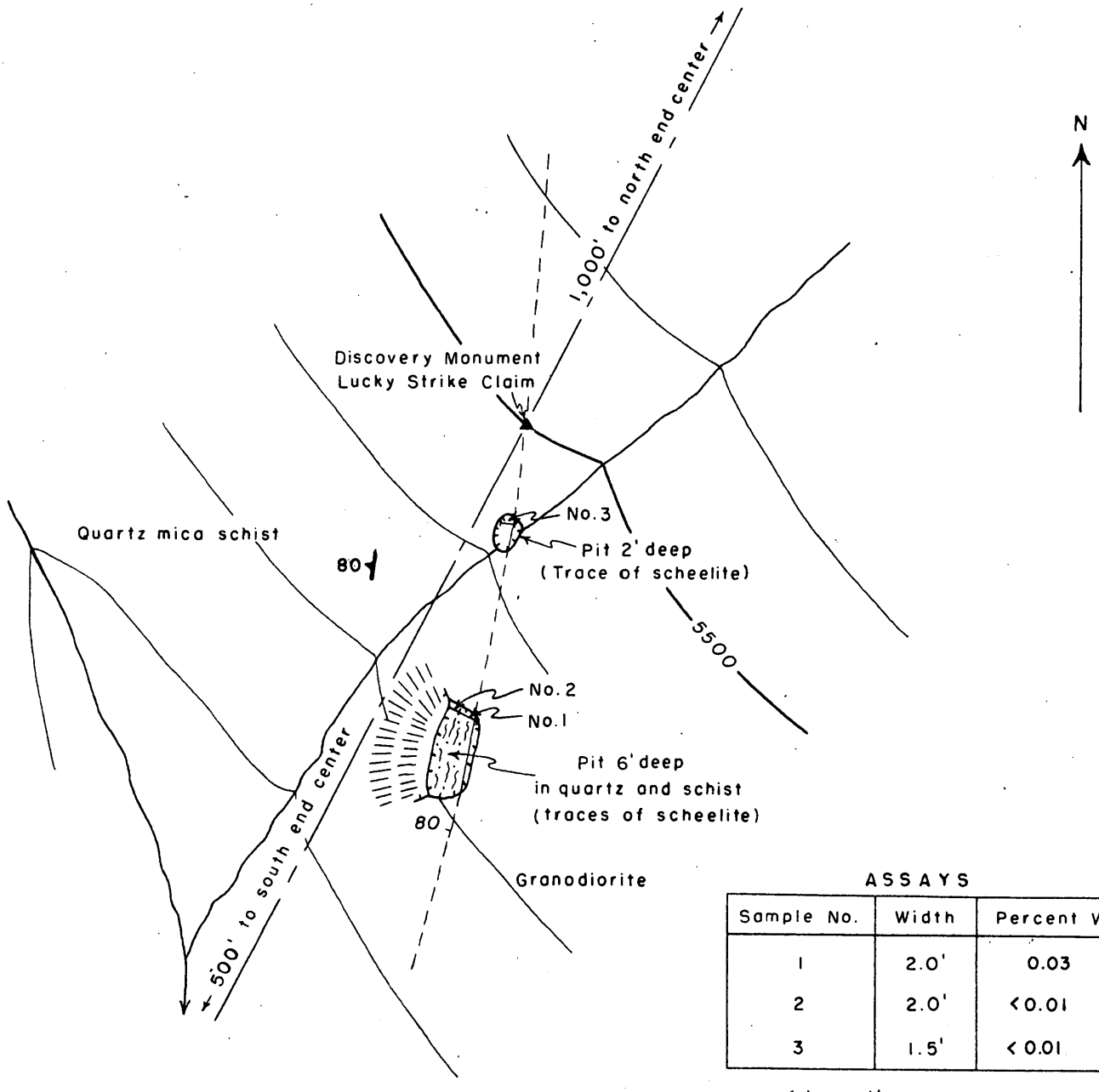
APPLICANTS PROPOSAL

The applicants propose a program consisting of bulldozer stripping followed by diamond drilling six holes aggregating 700 feet in length, to expose the contact zone along the surface and to explore to about 100 feet below the surface. Six diamond drill angle holes

would be located about 100 feet apart along a draw, which may parallel the quartz-mica schist and granodiorite contact zone. No definite locations for the holes were given. Costs and quantities of work applied for are as follows:

Description	Cost
Bulldozer operations - 48 hours	$ 914.00*
Diamond drilling, 700 feet @ $6.50/ft.	4,550.00
Labor and supervision	1,280.00*
Misc. supplies, equipment, assaying, etc.	717.00
Total estimated cost of project	$7,461.00

*Total Cost



ASSAYS

Sample No.	Width	Percent WO_3
1	2.0'	0.03
2	2.0'	<0.01
3	1.5'	<0.01

< Less than

GEOLOGIC SKETCH MAP OF THE LUCKY STRIKE TUNGSTEN PROSPECT
PLUMAS COUNTY, CALIFORNIA

20 0 20 40 FEET

Contour interval 5 feet

Datum approximate

Figure 2

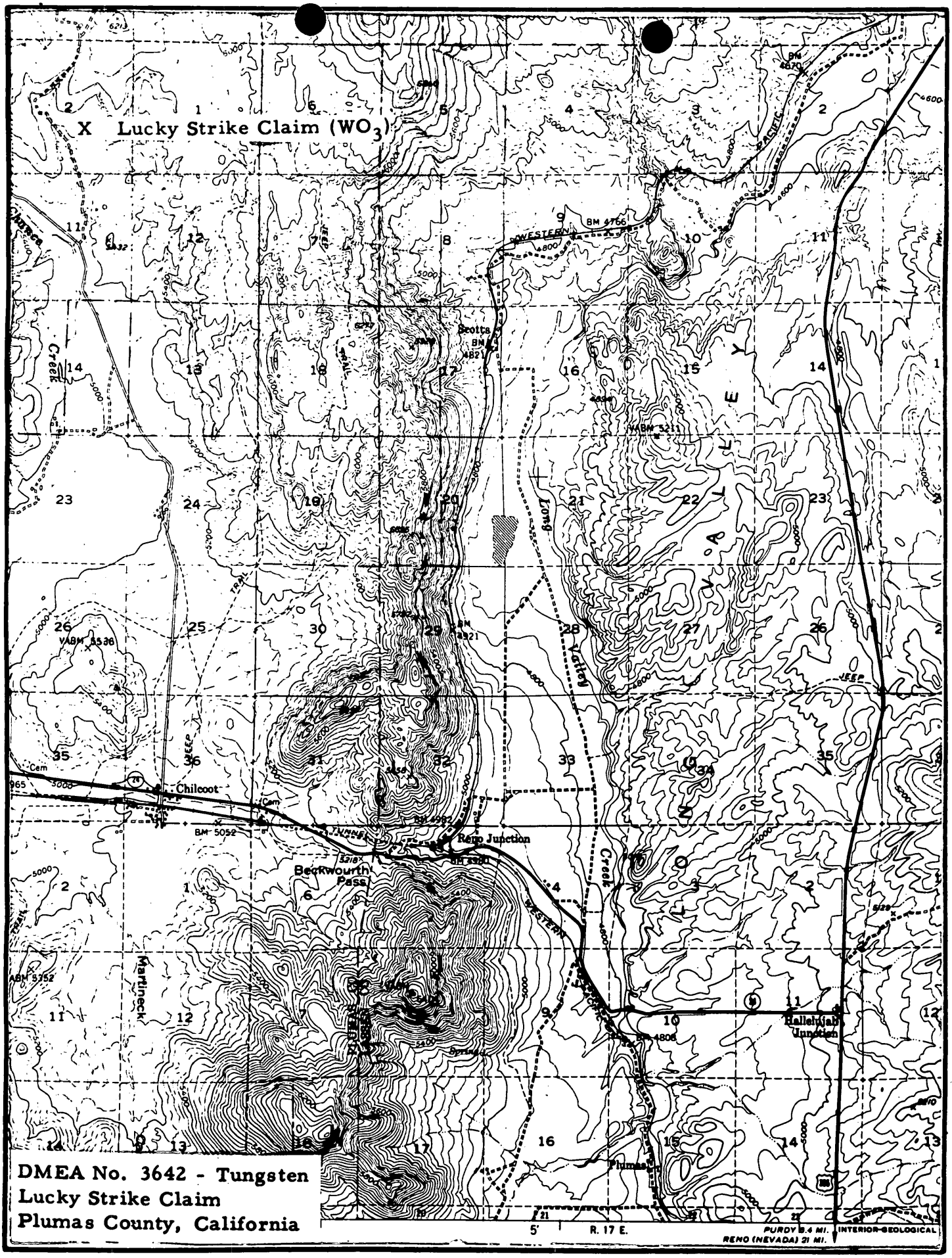


FIG. 1 LOCATION MAP

DOCKET
SURNAME
400 Chapman
Martin
McInnis
Selfridge
L. Johnson

FEB 8 1955

Mr. Spangler Richer, Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3642 - Tungsten
Lucky Strike Claim
Plumas County, California

Dear Mr. Richer:

The above docketed application for exploration assistance is being referred to your office for a field examination, or for a review in case you already have sufficient information on the property.

Two copies of a relevant memorandum dated January 24, 1955, by E. L. Newcomb, Geological Survey, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosure

APPROVED:

J. H. Hedges
Director, Bureau of Mines (JHB)

Thor H. Kiilsgaard
Director, Geological Survey (JHB)

TLChapman:foc
1-31-55
cc to: Docket
Code 400
Adm. Reading File
Operating Committee
FT. REG. II
W. McInnis, USBM
T. H. Kiilsgaard, USGS

DOCKET
SURNAME
400 Chapman
Martin
McDonn
Kiilsgaard
Hedges
Eldridge
Johnson

FEB 3 1955

Messrs. Higginson and Meadows
P. O. Box 519
Benicia, California

Re: Docket No. DMEA 364.2 - Tungsten
Lucky Strike Claim
Plumas County, California

Gentlemen:

The above docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. Spangler Richer, Executive Officer, DMEA Field Team, Region II, 420 Custom House, 555 Battery Street, San Francisco 11, California, for further consideration and possibly a field examination of the property.

Should a field examination be required, any assistance that you can give the examining engineers will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

TLChapman:foc
1-31-55
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. REG. II
W. McInnis, USBM
T. H. Kiilsgaard, USGS

R.G.S.

Docket

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 25 1955

January 24, 1955

Re: DMEA-3642
Charles M. Higginson
(Lucky Strike Claim)
Plumas Co., Calif.
$7,461 - Tungsten

WSM

Memorandum

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

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

Subject: Review of application

The operator proposes to drill 6 holes to test about 550 feet of strike length of a scheelite-bearing quartz vein.

We do not have any pertinent information available in our files on the Lucky Strike claim.

A mineralogical examination by the California Bureau of Mines of two specimens indicated small amounts of scheelite were present in Specimen No. 1. If this material was characteristic of the mineralization on the Lucky Strike vein, then exploration assistance probably is not warranted.

I recommend the application be referred to the Field Team for their review and recommendations. It is possible that sufficient data is available in their files to appraise the proposal without an on-site examination. If an examination is necessary, the feasibility of trenching should be considered.

E. L. Newcomb

E. L. Newcomb

January 18, 1955
Subject: DMEA-3642
Re: Exploration Assistance
Lucky Strike

Messrs. Higginson and Meacham
P. O. Box 519
Benicia, California

Gentlemen:

The receipt of your application dated January 14, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3642 and referred to the Iron and Ferro-Alloys Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

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

Not to be filled in by applicant

Docket No. 3642
Metal or Mineral Tungsten
Date Received 1-18-55
Estimated Cost $7,461
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Charles M. Higginson, P.O. Box 519, Benicia, Calif. and Robert H. Meacham, ~~3555~~ 355 East L St. Benicia, Calif.
Partnership

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

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

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

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

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

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

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. See enclosed Location Claim

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

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

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

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

5. *The exploration project.* (*a*) State the mineral or minerals for which you wish to explore Tungsten

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

(*c*) The work will start within 30 days and be completed within 3 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated January 14, 1955

Charles M. Higginson
(Applicant)

By R. N. Meacham

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

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

Jan 14, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

4(a) Location work only
(b) None
(c) Quartz vein containing Scheelite running thru granite formation Vein covered with overburden. Surface ore contains Scheelite. Drawing enclosed.
(d) This claim easily accessible by paved road to within five miles. The next four and one half miles is good surfaced road. The last three quarters of a mile is only a Jeep trail, but a road could be made by a bulldozer in about one day. Claim is five miles from Western Pacific R.R. 30 miles to Reno, Nevada.
(e) Manpower, materials, supplies and equipment available in Reno, Nevada. Water can be obtained from stream one mile away. Electric power within four or five miles.

5(b) See enclosed sketch. Propose to sink four diamond drill holes of one hundred feet each, and two holes of one hundred and fifty feet each. Intend stripping off vein of overburden with bulldozer for about six days.
(d) Applicant (Chas. Higginson) 10 years experience working in mines, will supervise the operation.

6(A) Independent Contracts.

Bulldozer operation: 48 hrs. at $18.00 per hr.	$864.00
Transporting bulldozer in and out of property	$ 50.00
Diamond drilling. 700 ft. at $6.50 per ft.	$4550.00
(b) Labor--2 miners at $2.50 per hr. for 160 hrs.	$800.00
Supervisor and powder man at $3.00 per hr. for 160 hrs.	$480.00
(c) 2 picks at $3.50 ea.	$ 7.00
4 shovels at $4.25 ea.	$ 17.00
1 wheelbarrow at $18.00 ea.	$ 18.00
Powder, caps and fuze	$ 50.00
(d) Compressor, Jackhammer and drills rented for 30 days	$ 125.00
(e) None	
(f) Powder magazine and tool shed	$100.00
(g) 50 Assays at $5.00 ea.	$250.00
Accounting	$ 50.00
(h) Contingencies	$100.00
Total	$7461.00

7(b) We propose to furnish ourshare of the costs by furnishing the labor and supervision listed in 6 (b) above, amounting to $1280.00. The balance to be supplied in cash.

Possible shipment of ore on surface.

Chas Higginson, Box 519 Benicia, Calif.
R N Meacham

355 East L. St.
Benicia, Calif.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF MINES

FERRY BUILDING, SAN FRANCISCO 11

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

LABORATORY REPORT

January 13, 1955

Mr. Charles M. Higginson
Box 519
Benicia, California

No F 4393

Dear Mr. Higginson:

We wish to acknowledge receipt of your rock specimens at our laboratory.

This material has been examined and classified as follows:

Specimen No. 1 is quartz (silicon dioxide) with small amounts of yellow pyrite (iron sulfide), chalcopyrite (copper, iron sulfide), scheelite (calcium tungstate), and galena (lead sulfide).

Specimen No. 2 is a metamorphic rock composed of quartz and black tourmaline (a complex boro-silicate) with minor amounts of pyrite.

An assay of specimen No. 1 would probably show some gold and silver.

Yours very truly,

OLAF P. JENKINS
CHIEF, DIVISION OF MINES
By

George L. Gary
Mineral Technologist

glg-hk

83910 7-53 10M DUP SPO

EXACT COPY

331

Notice of Location of Quartz, Or Other Rock in Place, Claim

Notice is hereby given that the undersigned citizens of the United States have discovered a vein or lode of quartz, or other rock in place, bearing Gold, Silver Copper, Lead & other minerals and in accordance with the laws of the United States and the laws of the State of California, states:

First—That the name of said lode or claim is Lucky Strike

Second—That the names of the locators Charles M. Higginson and Robert H. Meachan

direction

Third—That the number of linear feet claimed in length along the course of the vein, each way from the point of discovery is 1000 ft. in a northeasterly direction and 500 ft. in a southwesterly direction and the width of the claim is three hundred feet on either side thereof as measured from the center line of the vein at the surface, and the general course of the vein or lode, as near as may be, is Northeasterly and Southwesterly

Fourth—That the said claim was located on the 22nd day of August, 1953.

Fifth—That said claim is situated in Chilcoot Mining District, County of Plumas, State of California, and that a description of said claim, made by reference to some natural object or permanent monument as will identify the claim located, is as follows, to wit:

Approximately six miles in a northerly direction from the town of Chilcoot, and further described as about one mile in a northerly direction from camp ground site located about five miles from Chilcoot on Little East Chance Creek.

To be amended as follows:
And further described as being in Section 2 R16E, T23N.

Dated at Mining Claim this 22nd day of August, 1953

Chas Higginson

R H Meachan

NOTE.—The locator or locators of any lode mining claim shall define the boundaries of such claim so that they may be readily traced, but in no case shall the claim extend more than 1500 feet along the course of the vein or lode, nor more than 300 feet on either side thereof, as measured from the center line of the vein at the surface (Public Resources Code, Sec. 2302).

The notice must be posted at the point of discovery (Public Resources Code, Sec. 2301).

Within ninety days after the posting of his notice of location upon a lode mining claim, the locator shall record a true copy of the notice, together with a statement of the markings of the boundaries as required in Chapter 4 of the Public Resources Code and of the performance of the required discovery work, in the office of the county recorder of the county in which such claim is situated. The county recorder shall receive a fee of one dollar for the service. (Public Resources Code, Sec. 2313.)

Cowdery's Form No. 800—NOTICE OF LOCATION—QUARTZ CLAIM—WITH STATEMENT OF MARKINGS AND DISCOVERY WORK.

332

STATEMENT OF MARKINGS OF BOUNDARIES AND PERFORMANCE OF REQUIRED DISCOVERY WORK

The undersigned, locator S *of the lode mining claim described in the within notice of location, state* S *:*

That in accordance with Section 2302 of the Public Resources Code They *defined the boundaries of the claim in manner following:* Side lines 1500 ft along the course of the vein, running 300 ft. on each side of the middle of the vein, & with parallel end lines.

That within sixty days after the location of the lode mining claim described in the within notice, to wit: between the 22nd *day of* August *, 1953, and the* 14th *day of* September *, 1953,* They *erected at each corner of the claim and at the center of each end line, or the nearest accessible points thereto,* A wood post set in stone monument.

as required by Section 2302 of the Public Resources Code;

That within ninety days after the date of the location of the lode mining claim described in the within notice, to wit: between the 22nd *day of* August *, 1953, and the* 4th *day of* October *, 1953,* They *performed the following discovery work in accordance with the requirements of Section 2304 of the Public Resources Code;* Dig sink a discovery shaft to a depth of ten feet from the lowest part of rim of shaft at the surface

Dated at Mining Claim *this* 14th *day of* September *, 1953*

C. M. Higginson

R. H. Meacham

Note.—Within sixty days after the date of location of any lode mining claim hereafter located, the locator or locators shall erect at each corner of the claim and at the center of each end line, or the nearest accessible points thereto, a post not less than four inches in diameter, or a stone monument at least eighteen inches high (Public Resources Code, Sec. 2302).

Within ninety days after the date of location of any lode mining claim hereafter located, the locator or locators thereof shall sink a discovery shaft upon the claim to a depth of at least ten feet from the lowest part of the rim of the shaft at the surface, or shall drive a tunnel, adit, or open cut upon the claim to at least ten feet below the surface (Public Resources Code, Sec. 2304).

Notice of Location
Quartz Claim

758

Mining District,

County,

State of California.

Dated ..... *, 19*

Recorded at the Request of C. M. Higginson

Sept 15 *, 1953*

at 45 *min. past* 11 *o'clock* A. *M.,*

in Volume 26 *of* Quartz

page 319

Plumas *County Records.*

IDA E. HOGAN *Recorder*

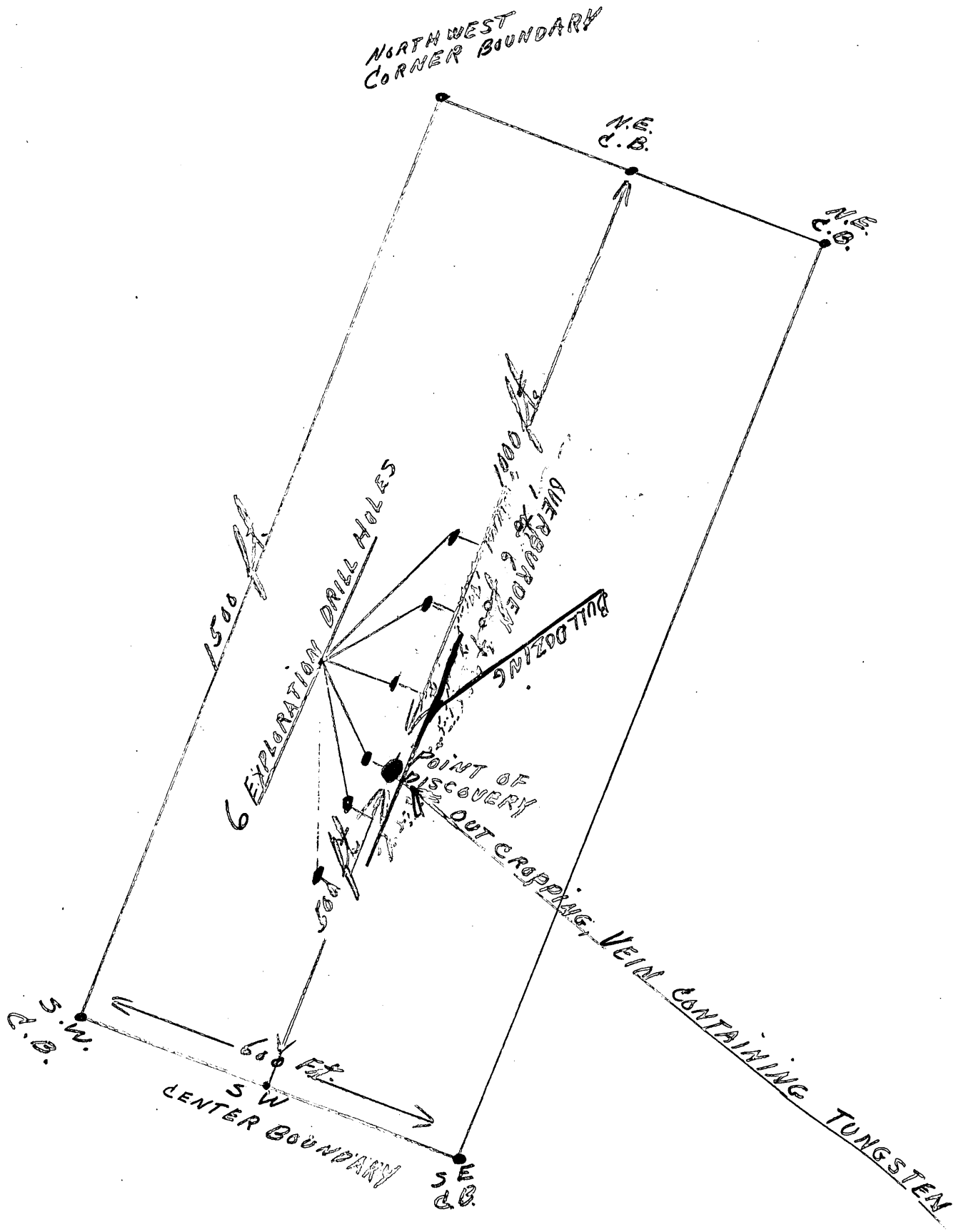
By ..... *Deputy Recorder*

COMPARED INDEXED

Recorded at request of

Charles M.Higginson
October 7,1953
at 45 min.past 10 A.M.
vol. 26 page 332
Quartz
Plumas Co. Cal.Records
Ida E. Hogan
Recorder
Fee $1.00

N



W

E

S

Cm/Higginson Box 519, Benicia, Calif

R H Meacham 355 East 2 St. Benicia, Calif.

LUCKY STRIKE MINING CLAIM