DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2847

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This document has been recorded as
EXPLORATION ASSISTANCE

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

One copy to USBM., USGS. & Region III

Routing Slip

To:	Code 400, Room 3538	Date	1/12/53
To:	Oper Com	Date	1-23-53
To:	Oper Com	Date	3-27-53
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CONTROLLED DOCUMENT

Docket

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 27 1953

Mr. C. O. Mittendorf
D. M. E. A.
Department of the Interior
Washington, D. C.

April 23, 1953

Re:
Docket No. DMEA 2847 - Tungsten
Lily Lode Mining Claim
Kern County, California

Dear Mr. Mittendorf:

We have your letter of March 30, and wish to thank you for your kind consideration of our DMEA application.

denial letter

It is our plan to proceed with the development of this property at the first opportunity either with or without government aid. A careful study of your letter indicates to us that under certain circumstances the DMEA might be more receptive to an application on our part for assistance.

The Lily Lode Mining Claims (approximately two miles southwesterly from the Tungsten Hill landmark) are geographically situated between and in line with major tungsten properties in the Randsburg-Atolia district and the Jawbone Canyon area. In preparing our application it was necessary that we present our proposed program of exploration which we based on the advice of experienced mining engineers. We recognize that even the best of engineers are not always in agreement, and accordingly we are open to any suggestions your office might have as to a more desirable program. We also welcome any information you may be in a position to furnish that might be beneficial to us and our desire to assist in building ore reserves for the National Defense Program.

You mention "other data available to you in Washington concerning the subject property." If, in the past, there has been application for aid to any government agency, Mr. Collins and I are not aware of it. We have submitted our application in good faith, having sought out and secured all facts and figures available to us. If there is any information or facts of record concerning the subject property or any personalities involved, past or present, which might jeopardize any future application, we ask that you advise either Mr. Collins or the undersigned.

Again thanking you for your consideration, I am

Yours very truly,

Earl C. Kendall

6520 Grant Rd.
Mountain View, Calif.

~~It~~ ~~mom~~
Hoffland
Policy question
to decide. Potential
Govt liability

FILE COPY
SURNAME:
MAY 2 6 1953

140

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C. (Rewritten by Chief Counsel)

Martin
FEJohnson
Hofflund
Martin
Hedges

Subject: Docket No. DMEA-2847
(Tungsten)
Lily Lode Mining Claim
Kern County, California

Mr. Earl C. Kendall
6520 Grant Road
Mountain View, California

Dear Mr. Kendall:

Reference is made to your letter of April 23, 1953, discussing our recent denial of the subject application, and asking whether we have any information concerning the same property, or any personalities involved, which might jeopardize any future application.

Please be assured that there is no question whatsoever of personalities in the matter.

We note that it is your plan to proceed with the development of the property at the first opportunity, "with or without Government aid." If further evidence, based on the results of additional work, should indicate that the probability of finding minable ore reserves there is significantly better than is now believed, and if Government aid for such a project is then available, you might renew your application in the light of such new evidence.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

MDL 5-26-53

WSMartin:JLH:ep 5-22-53

Copy to: Mails & Files
~~Docket~~
Admr. R. File
Field Team, Reg. III(2)
Code 400
Operating Committee
Mr. D. M. Lemmon USGS
Mr. R. W. Geehan, USBM
Mr. Martin
Mr. Hofflund
Chron.
Pending

400

FILE COPY
SURNAME:

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

Rutledge
Martin
Kunkel
Hodges
Selbridge
Fjelsman

BD

Mr. Earl G. Kendall
Lily Lode Mining Claim
6520 Grant Road
Mountain View, California

MAR 30 1953

Re: Docket No. DMEA 2847 - Tungsten
Lily Lode Mining Claim
Kern County, California

J. C. 3/30/53

Dear Mr. Kendall:

Your application for aid for an exploration project and other data available to us in Washington concerning the subject property have been reviewed.

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

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

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

cc: Docket
Field Team, Region 3
Code 400
Admn. Read. File
R. W. Geehan, USBM
D. M. Lemmon, USGS

FARutledge/hhb
3/26/53

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
Administrator, DMEA DEFENSE MINERALS ADMINISTRATION March 26, 1953
WASHINGTON 25, D. C.

Rutledge
Martin

Iron and Ferro-Alloys Division, DMEA

Denial of application for exploration assistance in the amount of $22,168.76.
Docket No. DMEA 2847 - Tungsten
Lily Lode Mining Claim
Kern County, California

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

1. An examination by the Field Team indicated the property has little merit.

2. The applicant proposed to spend a total of $22,168.76 to deepen an existing 50-foot shaft to 100 feet, and to do 245 feet of drifting and crosscutting to explore the downward extension of a series of scheelite stringers exposed in pits and the above shaft.

3. High-grade scheelite occurs with calcite in extremely narrow lenses along fractures in a granodiorite. As exposed by present workings, the lenses vary from knife-edge to 1/2 inch in thickness and are up to three feet in length. There are no indications that the granodiorite may contain other bodies of tungsten mineralization having greater promise than those now exposed.

4. The Field Team recommends denial.

5. The Commodity Division of the U. S. Geological Survey recommends denial.

6. The Commodity Division of the U. S. Bureau of Mines concurs with the denial of the subject application.

W. S. Martin

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

CC: Docket
Code 400
Admn. Read. File
Operating Committee
FARutledge
3/26/53

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA

DATE: March 26, 1953

FROM : Iron and Ferro-Alloys Division, DMEA

SUBJECT: Denial of application for exploration assistance in the amount of $22,168.76.
Docket No. DMEA 2847 - Tungsten
Lily Lode Mining Claim
Kern County, California

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

1. An examination by the Field Team indicated the property has little merit.

2. The applicant proposed to spend a total of $22,168.76 to deepen an existing 50-foot shaft to 100 feet, and to do 245 feet of drifting and crosscutting to explore the downward extension of a series of scheelite stringers exposed in pits and the above shaft.

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5. The Commodity Division of the U. S. Geological Survey recommends denial.

6. The Commodity Division of the U. S. Bureau of Mines concurs with the denial of the subject application.

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

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

Docket

March 23, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 24 1953

Memorandum

To: Mr. W. S. Martin, DMEA

From: R. W. Geehan

Subject: DMEA-2847 - Lily Lode, Kern County, California

The Field Team report dated March 5 indicates that the veins are too narrow and discontinuous to be mineable. I concur in their recommendation that the loan be denied.

Robert W. Geehan

Robert W. Geehan

IN REPLY REFER TO:

G-MD-CF

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

March 20, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report
Lily Lode Mining Claims
Randsburg district
Kern County, California

DMEA-2847
Tungsten

The Lily Lode tungsten prospect was examined February 9, 1953, by W. P. Irwin and W. E. Hall of the Geological Survey. Their report, dated March 5, recommends denial of the exploration application because there is little chance of making a significant discovery.

I concur with the recommendation that the application be denied.

D. M. Lemmon

D. M. Lemmon

Copy retained 400

IN REPLY REFER TO:

G-MD-CF

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

March 20, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report
Lily Lode Mining Claims
Randsburg district
Kern County, California

DMEA-2847
Tungsten

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I concur with the recommendation that the application be denied.

D. M. Lemmon

Copy retained 400

IN REPLY REFER TO:

G-MD-CF

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

March 20, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report
Lily Lode Mining Claims
Ramsburg district
Kern County, California

DMEA-2847
Tungsten

The Lily Lode tungsten prospect was examined February 9, 1953, by W. P. Irwin and W. E. Hall of the Geological Survey. Their report, dated March 5, recommends denial of the exploration application because there is little chance of making a significant discovery.

I concur with the recommendation that the application be denied.

D. M. Lemmon

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 3-16

REFERRED TO:

1. Code 400
2.
3.
4.

FOR:

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

REMARKS:

Field Team Rept.

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

Betty Weinstein

Docket

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

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 16 1953

March 9, 1953

Memorandum

WSM

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2847 (Tungsten)
Lily Lode Mining Claim, Lily Lode and Lily Nos. 1 - 6 mining claims, Kern County, California

Reference is made to your letter, dated January 23, 1953, requesting a field examination of the subject claims.

Attached are four copies of a report entitled DMEA-2847, Lily Lode Mining Claim, Kern County, California, (Tungsten) by William P. Irwin and Wayne E. Hall, Geologists, U. S. Geological Survey, dated March 5, 1953.

It is recommended that the applicant's request for a loan be denied. The exposed scheelite-bearing veins are too narrow and discontinuous to be mineable, and there is no indication that mineable veins will be discovered by further exploration.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

O.C
3/20/53

Reviewed by
DMEA OPERATING COMMITTEE
3-20-53
(date)

3/27/53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS MCKAY, SECRETARY OF INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2847, Lily Lode Mining Claim

Kern County, California (Tungsten)

William P. Irwin, Geologist
Wayne E. Hall, Geologist
U. S. Geological Survey

March 5, 1953

Reviewed by
DMEA OPERATING COMMITTEE

3-20-53
(date)

Summary

The Lily Lode mining claim near Randsburg, California, is a tungsten prospect that exposes a few thin veins of scheelite in granodiorite. The owners propose to explore the granodiorite for additional veins, and the downward extension of known veins, by means of underground workings at a cost of $22,168.76. It is recommended that the owners' request for Government aid in the exploration be denied, as the granodiorite in the vicinity of the prospect shows no promise of containing mineable bodies of tungsten ore.

Introduction

The owners of the Lily Lode mining claim applied to Defense Minerals Exploration Administration for Government aid in a $22,168.76 program to explore the claims for tungsten ore. The claim was examined on February 9, 1953, at the request of DMEA, by W. P. Irwin and W. E. Hall of the Geological Survey. The onwers, John Shelburn, J. L. Collins, and E. C. Kendall, were on the property during the examination.

The Lily Lode mining claim is in western Kern County, California about 6 airline miles southwest of Randsburg. It can be reached by travelling west from Randsburg 3.6 miles on highway 6, and from that point travelling southerly 4.6 miles on an ungraded desert road. The claim has been prospected by several open cuts, and by about 90 feet of drift and crosscut at the bottom of a steeply inclined shaft that is 50 feet deep. (See plate 1).

Geology

Granodiorite, which is locally coarsely foliated, underlies the claims and in places is cut by steep faults. Scheelite, the only tungsten-bearing mineral seen, fluoresces under ultra-violet light a bluish-white color, indicating that it is of a high degree of purity. The scheelite is exposed in two of the open cuts as discontinuous seams and disseminations in veins in steep, northeast-trending faults. In parts of the veins scheelite constitutes as much as 25 percent of the vein material; the remainder of the vein material is mostly calcite.

In the open cut 70 feet southeast of the shaft collar, a scheelite-bearing vein one inch thick is exposed in the face (see plate 1). Scheelite constitutes about 20 percent of the vein over a length of 2 feet. In the open cut 190 feet northeast of the shaft collar a similar vein is exposed for several feet along the wall. There, however, the vein is only $\frac{1}{2}$ inch thick and appears highly discontinuous. The vein contains about 30 percent scheelite over a length of 3 feet on the northeast face of the cut; no scheelite is present on the southwest face. According to the applicants, a small quantity of tungsten ore was produced from these two cuts since World War II.

The only other occurrence of scheelite seen was in the southeast-heading limb of the underground workings. A seam of scheelite was seen at three places along this working. Only the largest of these seams is shown on plate 1. It is 1/8 inch thick and about 2 feet long. These seams

appear to fill fractures, rather than faults, but as they strike northeast it is likely they are structures related to the northeast trending faults. The persistent northwesterly-striking shear exposed underground has not been mineralized.

Conclusions

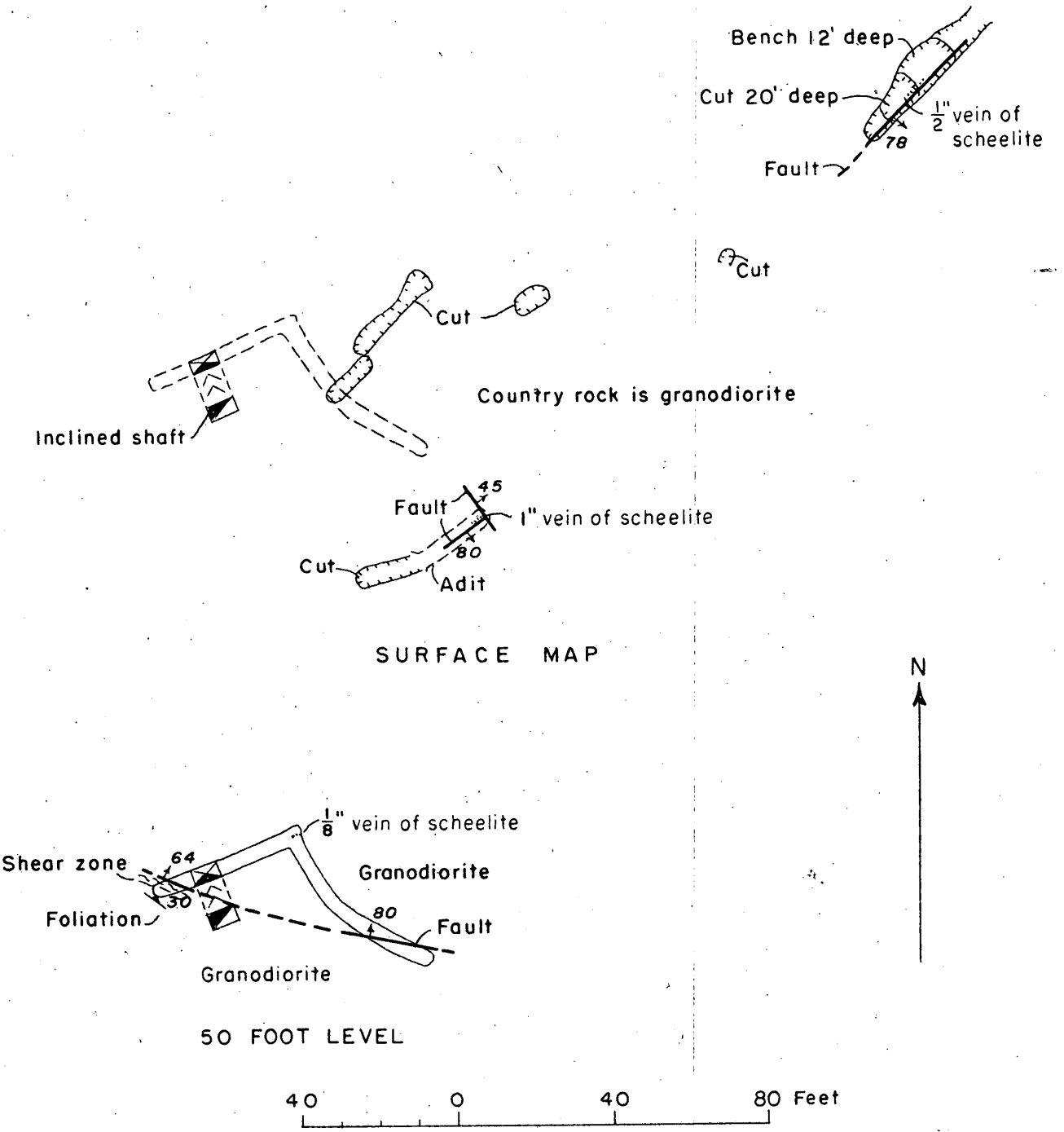
It seems possible that the scheelite-bearing veins exposed in the open cuts continue for considerable distances beyond the present exposures, and that the two open cuts are in the same vein. It is highly unlikely, however, that the veins can be mined economically, owing to their narrow widths and to their pinching to a knife edge for considerable distances. No evidence was seen to indicate that the veins are thicker and more continuous at depth. An increase in the price of WO_3 of at least two-to three-fold would be necessary before the exposed veins could be mined profitably. Even in such event the total tonnage of ore would be very small. The outlook for the prospect as an exploration venture is very poor.

Recommendation

It is recommended that the request for a DMEA loan to explore the deposit be denied.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 2847
TUNGSTEN



Mapped by W. P. Irwin and W. E. Hall, February 1953

LILY LODE MINING CLAIM, KERN COUNTY, CALIFORNIA

Plate I

400

FILE COPY
SURNAME:

Chapman
Martin
Huhm
Hedges
Kaufman
Selfridge.

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

Mr. Earl G. Kendall
Lily Lode Mining Claim
6520 Grant Road
Mountain View, California

JAN 23 1953

Re: Docket No. 2847 - Tungsten
Lily Lode Mining Claim
Kern County, California

J. C. 1/23/53

Dear Mr. Kendall:

Your application for exploration assistance on the above-noted property has been carefully reviewed and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

TLChapman/ls
1/19/53

CC: DOCKET
FIELD TEAM, REG. III
CODE 400
ADMN. READ. FILE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

400

FILE COPY
SURNAME:

Chapman
Martin
Geehan
Selfridge

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

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

JAN 23 1953

Re: Docket No. 2847 - Tungsten
Lily Lode Mining Claim
Lily Lode and Lily Nos. 1 - 6
mining claims
Kern County, California

J. C. 1/23/53

Dear Mr. Miller:

Reference is made to the subject docket. It appears desirable that a field examination be made of the property and it is suggested that the field team take note of the following:

(1) A geological study of the area appears to be necessary to determine the possibilities of the extension of ore stringers and pockets on depth.

(2) Check the costs as presented by the applicants and call their attention to the fact that equipment owned by them is placed on a depreciation basis.

Enclosed find two copies of a memorandum by the Commodity Division of the U. S. Geological Survey.

Sincerely yours,

George C. Selfridge (JHB)

Chairman, Operating Committee

Enclosures

TLChapman/ls 1/19/53

Approved:

J. H. Hedges (JHB)

Member, Bureau of Mines

T. P. Thayer (JHB)

Member, Geological Survey

cc: DOCKET
FIELD TEAM, REGION 3
CODE 400
OP. COM.
ADMN. READ. FILE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

IN REPLY REFER TO:

G-MD-CF

W304

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

January 16, 1953

Memorandum

To: W. S. Martin

From: M. D. Crittenden

Subject: DMEA-2847 (tungsten)
Lilly Lode Mining Claim
P. O. Box 103
Randsburg, California

The applicant, a partnership, proposes to spend a total of $22,168.76 to deepen an existing shaft from 50 to 100 feet, and to do 245 feet of drifting and cross cutting to explore the downward extension of a series of scheelite stringers exposed in surface pits and a 50-foot shaft.

The property, known as the Lilly group, is located about 8 miles southwest of Randsburg. The Geological Survey does not have information on this prospect, though many others are on records, mostly farther east. It is recommended, therefore, that the application be referred to the field to appraise the existing exposures, and for a recommendation as to the prospects for downward extension.

Maynard Crittenden Jr.

M. D. Crittenden

Copy, retained 400

January 12, 1953

Mr. Earl C. Kendall, Partner
Lily Lode Mining Claim
6520 Grant Road
Mountain View, California

Subject: DMEA-2847
Re: Exploration Assistance
Lily Lode Mining Claim

My dear Mr. Kendall:

The receipt of your application dated January 10, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2847 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2847 in any future correspondence relating to your application.

Sincerely yours,

R. E. ADAMS

Robert E. Adams
Chief, Operation Control
and Statistics Division

25451

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 12 1953

January 10th
1 9 5 3

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

Gentlemen:

Enclosed is the application for the Lily Lode Mining Claim exploration project, a partnership composed of John Shelburn, John L Collins, and Earl C. Kendall.

We trust that you will give us every consideration and that we may receive an early reply. Also will you please acknowledge receipt of these papers.

Thanking you, we are

Yours very truly,

Lily Lode Mining Claim

By Earl C. Kendall
Earl C. Kendall

6520 Grant Rd.
Mountain View, Calif.

K

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 12 1953

Not to be filled in by applicant

Docket No. dmea 2847
Metal or Mineral
Date Received 1-12-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: LILY LODE MINING CLAIM, P.O.Box 103, Randsburg, California

John Shelburn, P.O.Box 103, Randsburg, Calif.
John L. Collins, 1414½ No. Famosa, Los Angeles 46, Calif.
Earl C. Kendall, 6520 Grant Rd., Mountain View, Calif.

(*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. Partnership California

(*c*) If a corporation, add to above statement, titles, names and addresses of officers. Not Applicable.

(*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 Group of seven claims
8 miles Southwest from Randsburg
6 miles East from Mesquite Springs
about 3 miles Westerly from Sidney Peak

(*b*) State any mine name by which the property is known. Lily Lode Mining Claim

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

(*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. Not applicable.

(*e*) If you own the land, describe any liens or encumbrances on it No liens or encumbrances.

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

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. See accompanying paper.

(*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. See accompanying paper.

(*c*) The work will start within 30 days and be completed within 7 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. See accompanying paper.

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: $ 22,168.76

(*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. None

(*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. None

(*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?

[ ] Money [X] 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 10, 1953

LILY LODE MINING CLAIM
(Applicant)

By Earl C. Kendall

6520 GRANT RD

MOUNTAIN VIEW, CALIF.

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

Lily Lode Mining Claim
P.O.Box 103
Randsburg, California

INSTRUCTION 1-(d)

Names and addresses of partners:

John Shelburn
P.O.Box 103
Randsburg, California

John L. Collins
1414½ No. Famosa
Los Angeles 46, California

Earl C. Kendall
6520 Grant Rd.
Mountain View, Calif.

Lil Lode Mining Claim
P.O.Box 103
Randsburg, California

INSTRUCTION 3-(f)

Book and page numbers of recorded location notices.

Recorded in Bakersfield, Calif., Kern Co. Courthouse.

Lily Lode Mining Claim (Discovery Claim)
Book 1792, Page 322

Lily #1
Book 2008, Page 478

Lily #2
Book 2008, Page 480

Lily #3
Book 2008, Page 482

Lily #4
Book 2008, Page 484

Lily #5
Book 2008, Page 486

Lily #6
Book 2008, Page 488

Lily Mode Mining Claim
P.O.Box 103
Randsburg, California

INSTRUCTION 4-(a)

High grade tungsten was mined from surface diggings during World War II (about 1942) by Jones (deceased.)

Relocated in 1951 by John Shelburn.
Present exploration work, started in September 1952, is our own. Six additional claims have been staked out, and all location work has been completed and recorded at Kern County courthouse in Bakersfield. Further prospecting has uncovered tungsten outcroppings and surface tungsten on several of these claims.

Recent work includes grading of road, building of head-frame and hoist house, purchase and installation of equipment including Ingersol-Rand gasoline compressor 105, air and water receivers, gasoline operated hoist, blower with gasoline motor, and Ingersol-Rand J-50 jack-hammer with column, arm, cradle, etc.

A 50 foot shaft has been sunk on one of a number of high-grade scheelite stringers. Then a cross-cut tunnel 60 feet long was driven to a point which is approximately five feet short of a 1½ inch high-grade stringer uncovered in one of the open cuts.

A number of scheelite stringers were encountered in this cross-cut. Also encountered in this cross-cut is a granite wall bearing scheelite.

All workings on the property are readily accessible for examination purposes at any time by contacting John Shelburn, P.O.Box 103, Randsburg, California.

Lily Rode Mining Claim
P.O.Box 103
Randsburg, California

INSTRUCTION 4-(b)

Though no production or assay records are available, Jones milled during World War II approximately twenty tons of 3% tungsten and four tons of 30% tungsten from surface holes.

No current production and no ore blocked out at the present time. John Shelburn made a mill test run on 400 pounds of ore taken from present shaft running 3% scheelite.

4-(c)

Property lies between two major faults with quartz veins carrying scheelite cutting micaceous solfiet and granite. Stringers of highgrade scheelite manifest themselves in crosscutting with ore occuring in cross fractures or faults. A quartz monsonite will probably be encountered as depth is attained. The larger ore bodies in this general district have been found in this formation

The objectt of our exploration is to seek and block out these bodies of ore and determine the scale of future operations.

Lily Lode Mining Claim
P.O.Box 103
Randsburg, California

INSTRUCTION 4-(d)

The property is accessible the year round over county highway and 4.6 miles of graded road. Mine is eight miles from Randsburg where shipping, supply, and resident facilities are available.

4-(e)

Ample manpower available. Materials, supplies, and equipment in Randsburg. Power line approximately four miles, nearest well about two miles away with 120 feet of water at 350 foot level.

Lily Lode Mining Claim
P.O.Box 103
Randsburg, California

INSTRUCTION 5-(b)

As shown by accompanying sketch we propose additional work on the 50 foot level to extend the drifts and cuts to explore the area beneath the main surface showings. Then sink the shaft to the 100 foot level and drift and cross-cut in a similar manner.

5-(D)

John Shelburn (co-partner) and superintendent of operations, has over 40 years of experience in the various capacities of miner, mine boss, foreman, contract miner, leaser, etc. Formerly with Idaho-Maryland, he has been active in many of the mining districts of the West including Ely, Pioche, Arizona, Atolia, and Randsburg.

Lily Lode Mining Claim
P.O. Box 103
Randsburg, California

INSTRUCTION 6-(a)

Prospecting on exposed outcroppings on Lily claims #3, 4, 6 Four weeks @ $ 100.00			$ 400.00

(b)

	6 day week	26 Weeks	
Superintendent (Class 1123) @ $20.00 per day	$ 130.00	$ 3,380.00	
1 Miner Underground (1123) @ $18.00 per day	117.00	3,042.00	
1 Miner Underground (1123) @ $16.00 per day	104.00	2,704.00	
1 Hoist man (1122) @ $15.00	97.50	2,535.00	
1 Surface man (1122) @ $15.00 (6th Day @ Time & Half)	97.50	2,535.00	$14,196.00

(c)

Powder	24.00	624.00	
Caps	1.00	26.00	
Fuse	6.00	156.00	
Gasoline	16.00	416.00	
Batteries (Tungsten Light)	2.00	52.00	
Office Supplies (Phone, Postage, Etc.)	1.00	26.00	
Water	1.00	26.00	
Steel & Bits	10.00	260.00	
Lumber & Nails	10.00	260.00	
Oil, lubes, grease, etc.	3.00	78.00	
Pipe 2", and Fittings		140.53	
Blower pipe (used)		20.00	
Ore bucket (used)		25.00	
Misc. tools as needed, picks shovels, etc., incidentals		50.00	$ 2,159.53

(d)

Equipment (Rentals)			
Chevrolet Pickup	25.00	650.00	
Ford (Part time trans.)	5.00	130.00	
Equipment (Use Allowance)			
Compressor	35.00	910.00	
Jack-hammer, column, arm, and cradle	12.50	325.00	
Hoist	12.50	325.00	
Blower and motor	5.00	130.00	
Pressure and storage tanks (Water)	2.00	52.00	
(Carried Forward)		2522.00	16,755.53

Lily Mode Mining Claim
P.O. Box 103
Randsburg, California

INSTRUCTION 6 (Cont.)

(d) Cont.

	6 day week	26 Weeks	
(Brought Forward)		$ 2522.00	$ 16,755.53
Receiver (air)	$ 2.50	65.00	
Ore bucket, car, & track	5.00	130.00	
Gallos frame	5.00	130.00	
Hose (air & water)	2.50	65.00	2,912.00
(g)			
Equipment Maintenance			
Compressor-- Filter		2.96	
" Plugs		4.95	
Accounting & Bookkeeping	12.50	325.00	
Ins. (Fire & Theft)	1.00	26.00	
Ins. (P.L. & P.D.)		83.90	
Workmans Compensation			
3 (Class 1123)	35,35	919.10	
2 (" 1122	10.88	282.88	
Social Security	8.20	213.20	
State Unemployment	14.74	383.24	2,241.23
(h)			
Contingencies			
Estimate for Emergency Repairs & Unexpected Expenditures	10.00	260.00	260.00
Total Estimate of Costs			$ 22,168.76

Lily Mode Mining Claim
P.O. Box 103
Randsburg, Calif.

INSTRUCTION 7- (b)

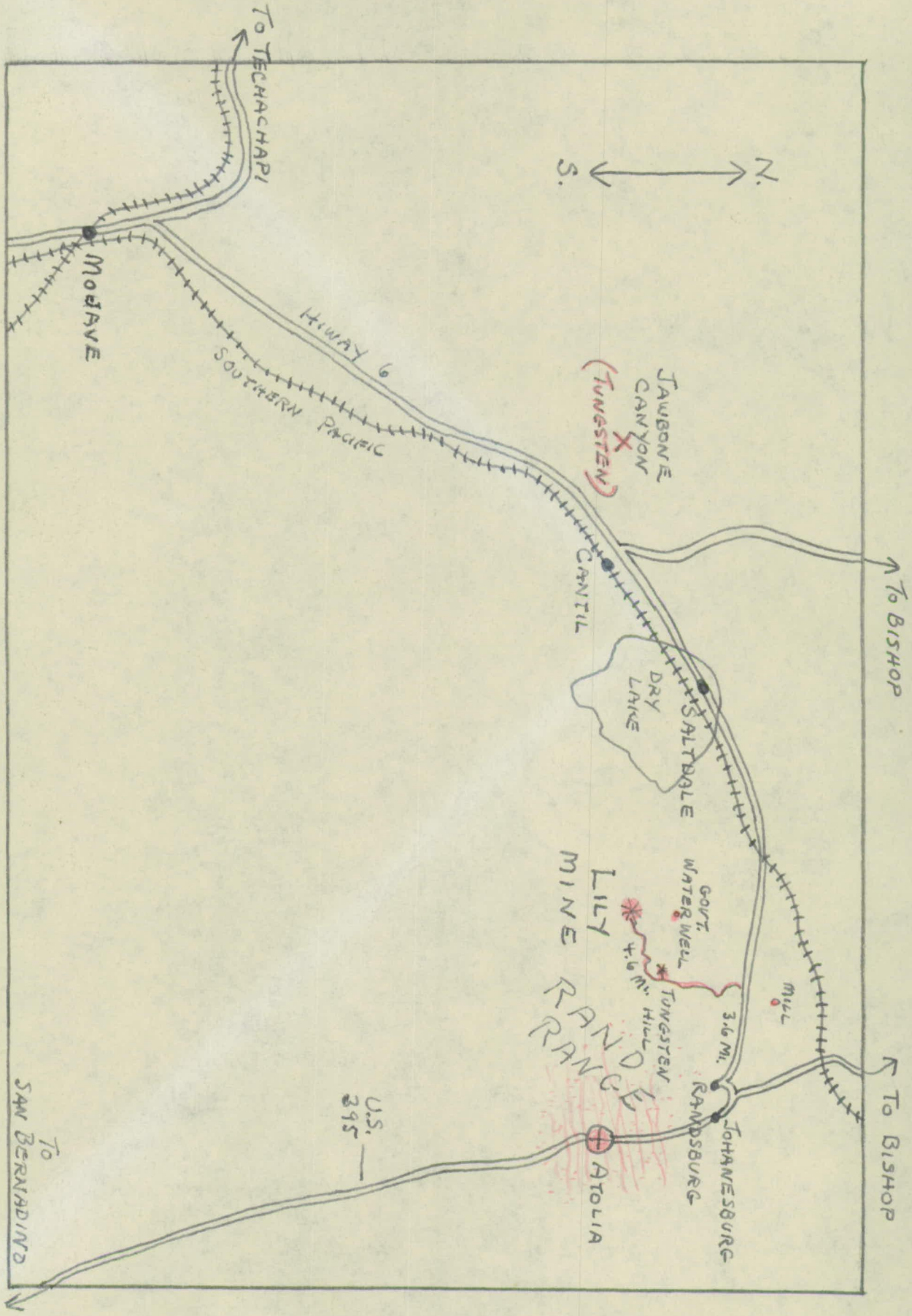
We (three co-partners) propose to furnish our share of costs by use allowance on equipment owned by us, and by accepting $50.00 weekly expense allowances in lieu of salaries as Superintendent, Hoist operator, and surface miner. The chart below illustrates the resultant saving together with the saving on compensation insurance and payroll taxes.

	26 Wk. Salary	$50 Expense Allowance	Differential
Superintendent	$ 3380.00	$ 1300.00	$ 2080.00
Hoist man	2535.00	1300.00	1235.00
Surface man	2535.00	1300.00	1235.00
	26 Weeks	2 Men 26 Weeks	
Compensation Ins.			
Class 1123 (3 men)	919.10	579.28	339.82
Class 112 2 (2 men)	282.88	none	282.88
Social Security (5 men)	213.20	86.32	126.88
State Unemp. (5 men)	383.24	155.22	228.02
Accounting & Bookkeeping	325.00	none	325.00
	Per Wk.		
Equipment:			
Compressor	35.00		910.00
Jack-hammer, Column, arm, and cradle	12.50		325.00
Hoist	12.50		325.00
Blower & Motor	5.00		130.00
Pressure and Storage tanks (Water)	2.00		52.00
Receiver (air)	2.50		65.00
Ore bucket, car and track	5.00		130.00
Gallos frame	5.00		130.00
Hose (air & water)	2.50		65.00
		Total	$ 7984.60

dmea 2847

Lily Lode Mining Claim
P.O.Box 103
Randsburg, California

Instruction 4-(c)

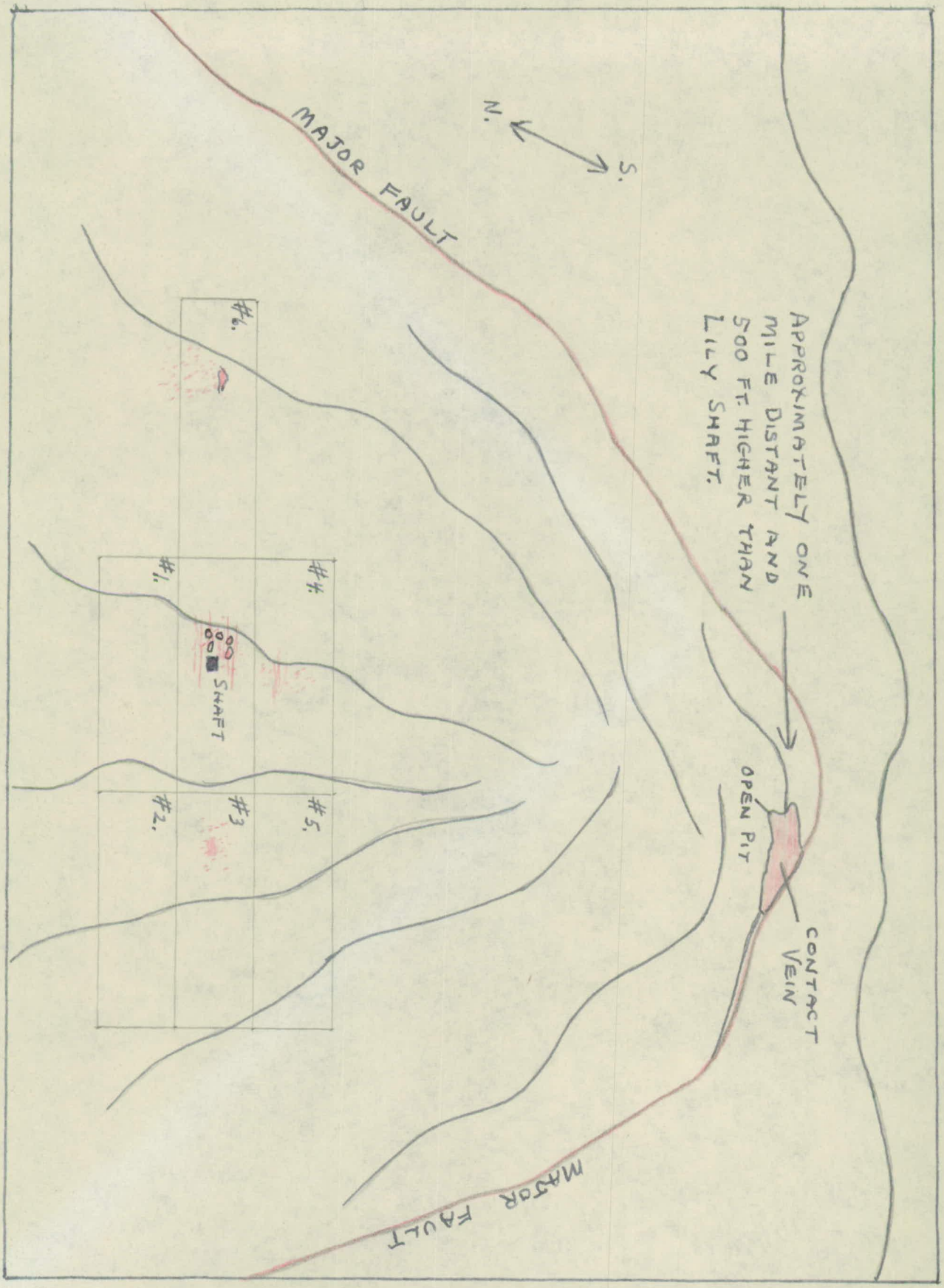


LILY MINE
(GEOGRAPHICAL LOCATION)
PHYSICAL RELATION TO NEARBY TUNGSTEN AREAS

dmea 2847

Lily Lode Mining Claim
P.O.Box 103
Randsburg, California

Instruction 4-(c)



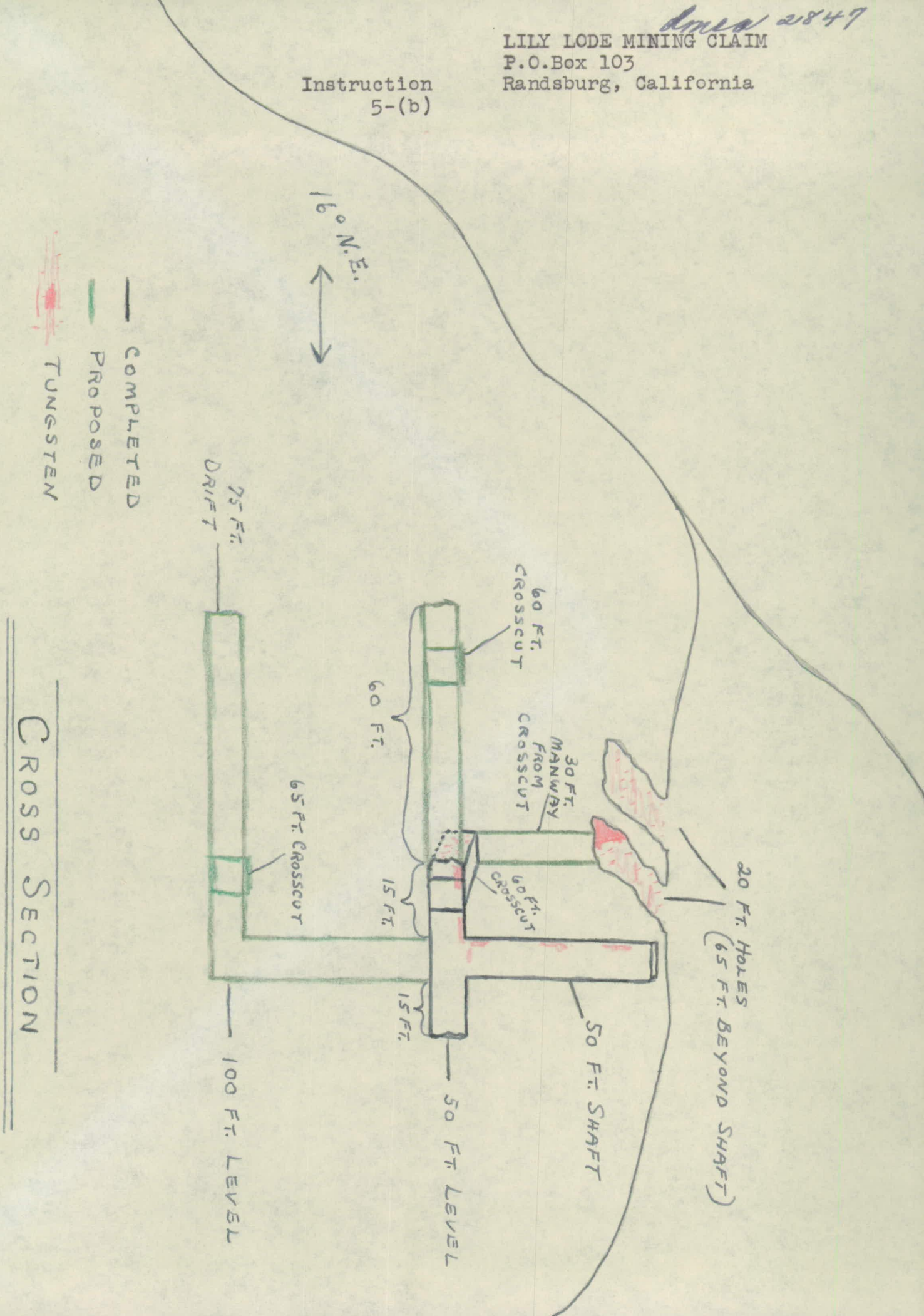
SECTIONALIZED CONTOUR

SURFACE TUNGSTEN, STRINGERS, & OUTCROPPINGS

dmea 2847

LILY LODE MINING CLAIM
P.O.Box 103
Randsburg, California

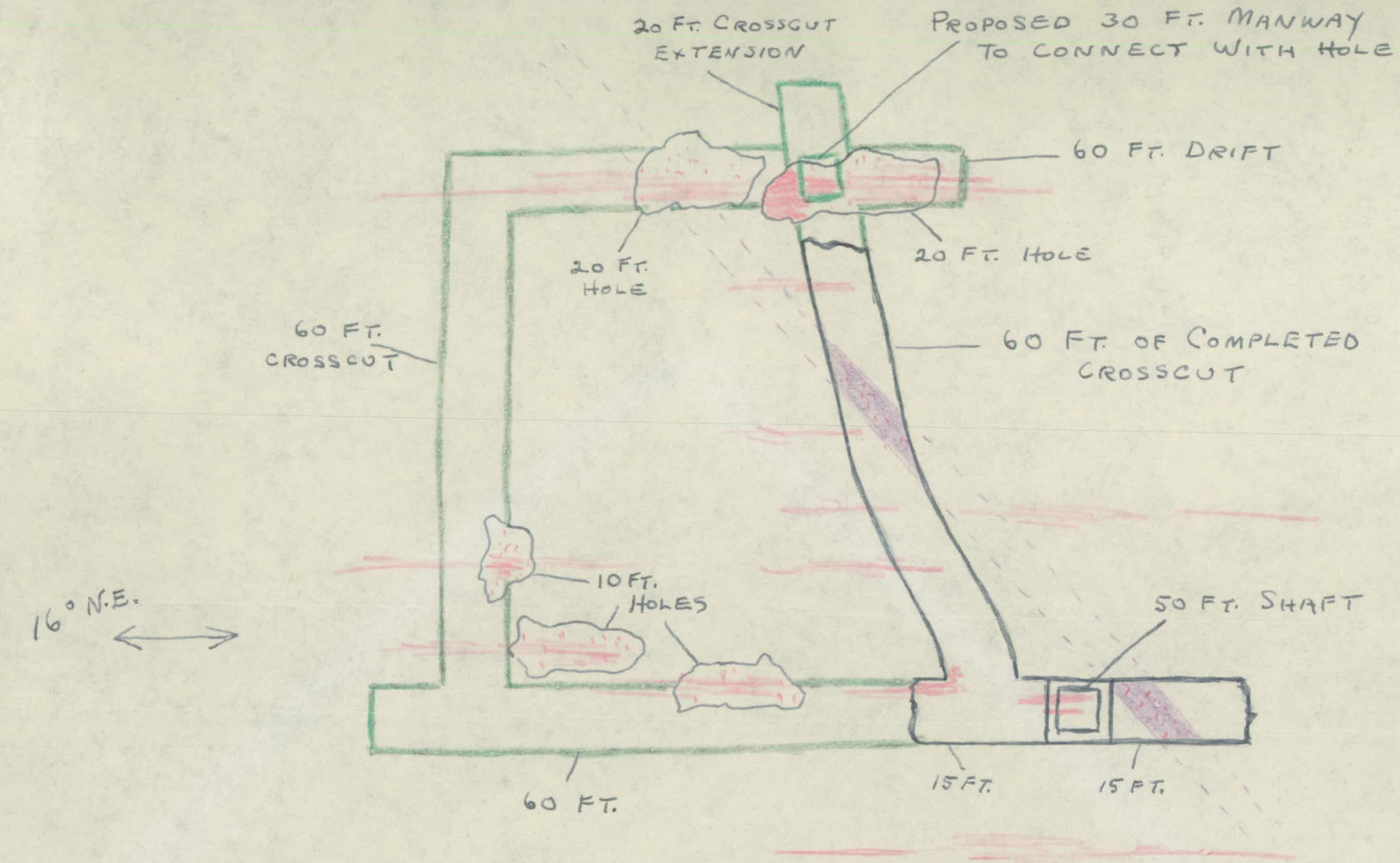
Instruction
5-(b)



CROSS SECTION

Lily Lode Mining Claim
P.O.Box 103
Randsburg, California

Instruction 5-(b)



SURFACE CUTS & DIGGINGS
WORK COMPLETED
PROPOSED
TUNGSTEN
TUNGESTEN BEARING GRANITE WALL

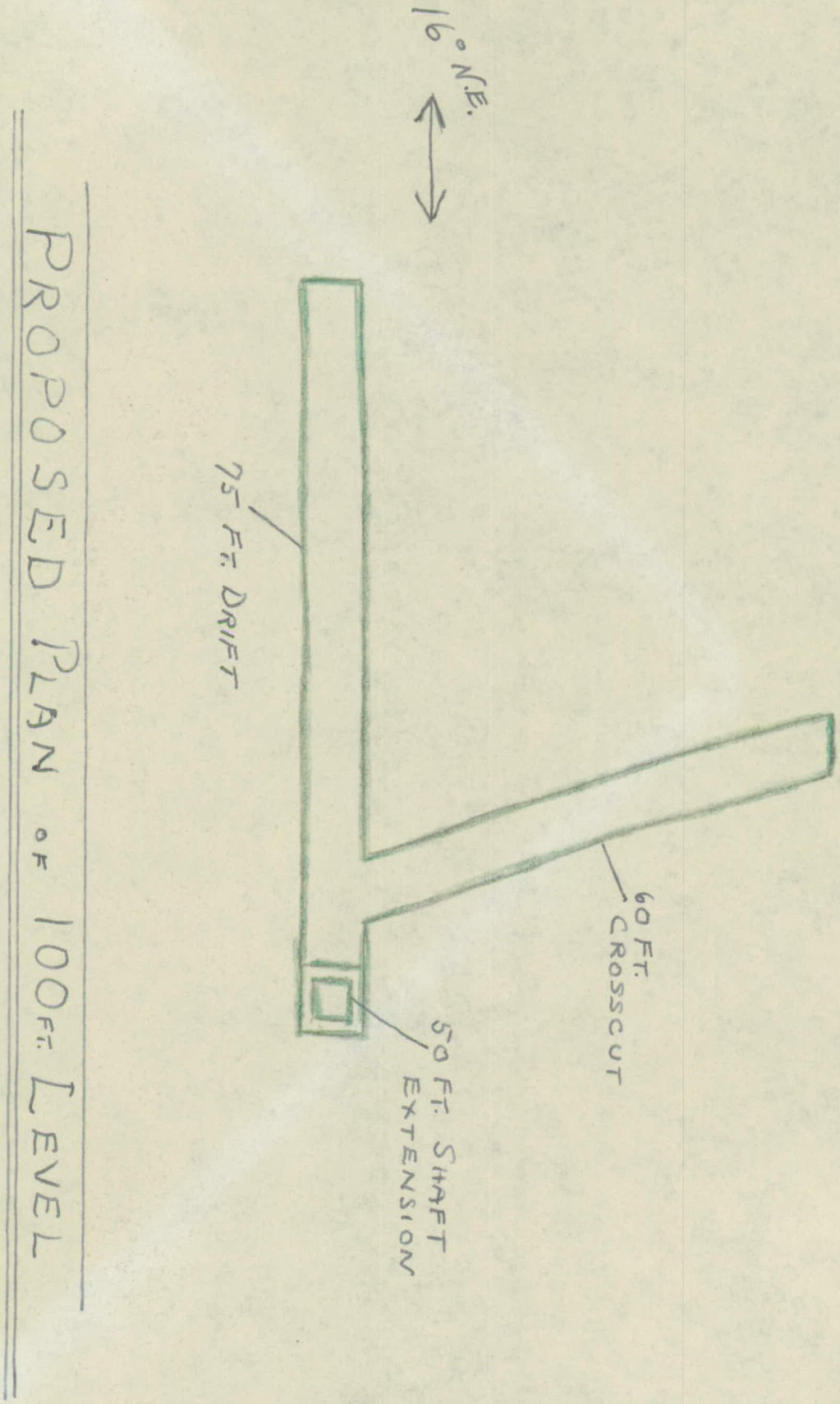
COMPLETED		PROPOSED	
SHAFT	50 FT.	DRIFTS	115 FT.
DRIFTS	30 FT.	CROSSCUT	80 FT.
CROSSCUT	60 FT.	MANWAY	30 FT.

PLAN OF 50 FT. LEVEL

Amen 2847

Lily Lode Mining Claim
P.O.Box 103
Randsburg, California

Instruction 5-(b)



PROPOSED PLAN OF 100 FT. LEVEL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
224 New Customhouse
Denver 2, Colorado

OFFICIAL BUSINESS

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

FM 6W-2847

DEFENSE MINERALS EXPLORATION ADMINISTRATION
INTERIOR BUILDING
WASHINGTON 25, D. C.