DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2331

DO NOT DETACH THIS SLIP

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This document has been recorded as

EXPLORATION PROJECT

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
(ONE COPY TO USGS &ONE TO USBM)

To:	CODE 400 RM. 3538	Date	1-22-52
To:	Operating Comm.	Date	2-29-52
To:	Operating Com	Date	6-2-52
To:	Op. Com	Date	6-11-52
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CONTROLLED DOCUMENT

Acting Administrator, DMEA

June 4, 1952

Iron and Ferro-Alloy Division, DMEA

Denial of exploration project in the amount of $52,000.00
Docket No. DMEA 2331X - Chrome
E. J. Petersen and L. J. Harper
Toujour Gai, et al, claims
Del Norte County, California

The subject application was denied by this Division for the following reasons:

1. The claims cover several small, widely separated deposits of chromite in serpentinized rocks. The ore, while of a good grade, occurs in relatively small lenses and there is little possibility of making a significant discovery.

2. These properties have produced between 400 and 700 tons of chrome ore of a good grade. This ore was mined from depths of 30 feet and less and extended work failed to open up any substantial tonnage of ore.

3. The Commodity Division of the U. S. Geological Survey concurred with the field team and recommended denial.

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

TLChapman'lm
6/4/52

cc: Admn. Reading File
Docket
G. C. Selfridge
T. L. Chapman

JUN 12 1952

Mr. K. J. Petersen
Room 20
206 Columbia Street
Seattle 4, Washington

Re: Docket No. DMEA 23311 - Chrome
Tonjour Gai, et al, Claims
Del Norte County, California

Dear Mr. Petersen:

Your application for an exploration loan in conjunction with other information available to us in Washington has been carefully reviewed.

The information, while noting a relatively small amount of high grade ore, indicates that geologically, there is little probability of making a significant mineral discovery. We regret, therefore, to inform you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Program and for your patience and effort in this request.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

TLChapman'lm
6/4/52

cc: Admn. Reading File
Docket
W. E. Melcher, USBM
T. P. Thayer, USGS
Field Team Reg. III
Operating Committee
G. C. Selfridge
T. L. Chapman

MAR 3 1952

Mr. H. J. Petersen
Room 20
208 Columbia Street
Seattle 4, Washington

Re: Docket No. DMRA 2331X - Chrome
Toujour Gai, et al, Claims
Del Norte County, California

Dear Mr. Petersen:

In answer to your letter of February 19, 1952, you are herewith notified that your application for assistance in exploring the above noted property has been reviewed by the Iron and Ferro-Alloy Division of the Defense Minerals Exploration Administration 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 aid which you can give the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

QLBrewer:lm
2/25/52

cc: Admn. Reading File
Docket
N. R. Melcher
T. P. Thayer
Field Team Reg. III
G. C. Selfridge
Q. L. Brewer

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

I+7A file

MAR 3 1952

2331

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant L. J. Harper and E. J. Petersen

Docket No. 2331

Commodity Chrome

Amount $ 52,000.00

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2331

Commodity Chrome

Total Amount $2,000.00

Govt. Participation 26,000.00

1. Name and Address of Applicant L. J. Harper and E. J. Peterson, 208 Room 20, ~~1208~~ Columbia St, Seattle, 4, Washington

2. Location of Property Diamond Creek District, Del Norte Co, Calif.

3. Mineral or metal Chromite Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery--based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor Very poor

c) None

d) Don't know--needs field examination No recent data ~~[illegible]~~ in Washington

e) Is there an alternative and favorable project? Don't know
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No

Does the lease have sufficient time to run to cover a future

productive period? —

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202? _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes (apparently depending on time of year)

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Possibly - provided he obtains cores for field team inspection, using split cores for analyses.

Is a field check needed on this point? Yes.

10. Exhibit A. (question 21 and 22)*

a) Is the project adequately described? No - Details of hole placement are lacking also details of geologic Targets.

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? Not in some instances

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? Yes

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? No -

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? No If so, attach a draft.

c) Are rents and charges reasonable? Cost Tell, does not give present Value of equipment

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? No - (see below) ~~Much work in engineering~~

c) Is the schedule excessive for the work proposed? ~~No~~ See

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? Yes

the item of $900, for Book-keeping, engineering, and accounting on a $52,000 project is foolish. Capable engineering must accompany an expenditure of this magnitude. ~~The person~~ a competent engineer must be on hand at all times & shall log the holes, make geological maps and cross sections. This item should be more nearly $5000=

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data?

c) Reasonable?

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? Don't know - Does not specify total footage to be drilled

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Yes. The applicant's geological discourse is quite muddled, and reflects a dependence upon a continuity of structure commonly found in fissure veins, and almost never found in occurrences of chromite. The field team is requested to report upon the ore occurrence and upon the probability of making a significant discovery. (Also, the applicant is to do the diamond drilling; a report upon his efficiency in this regard is requested, (See also foot note on Page 3)

Reviewed by: Brewer

2/25-1952

1- M7100
1- " 103
1- USGS opinion
1- MOP

Date 2/25-1952

(~~Note, [illegible], Mesing~~, 8

C
O
P
Y

147A

ERNEST J. PETERSEN

208 Columbia Street
Seattle 4, Washington

February 19, 1952

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

Subject: DMEA 2331 & DMEA 2330 Re: Exploration Loan
Four Your Gai claim and Red Dome Mercury claim

Gentlemen:

At the time the above loans were applied for, it was set forth the importance of action by March 1, 1952.

In our application we indicated the properties were ready for immediate exploration work to begin at the above date and that all of the necessary equipment, buildings and man power were available. We further indicated the weather conditions would permit the work to start.

Unless we can get this operation under way in early spring, we will not be able to do the diamond drilling on parts of this property for another year. Economical conditions are such, it is impossible to raise money from private sources and unless we can get help now, we will be forced to sell off our equipment and call it a day.

If it is possible to speed up the examination of these two prospecting loans, we will appreciate it greatly.

Yours very truly,

/s/ E. J. Petersen

177A
file

FEB 8 1952

Mr. Ernest J. Petersen
Room 20
208 Columbia Street
Seattle 4, Washington

Re: Docket No. DMEA 2331 - Chrome
L. J. Harper and E. J. Petersen
Diamond Creek Mining District
Del Norte County, California

Dear Mr. Petersen:

In compliance with your letter of February 5, 1952, we have noted in the records of this office that all correspondence addressed either to you or to Mr. Harper concerning the subject docket shall be sent to Room 20, 208 Columbia Street, Seattle 4, Washington.

Sincerely yours,

George C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

LScott:ls
2/7/52

Copy to: Admn. Reading File
Docket
G. C. Selfridge
Field Team, Region II

IN REPLY REFER TO:

G-MD-DML

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

400

June 2, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report, Exploration application DMEA 2331 - Chromite
Toujour Gad claims
E. J. Peterson and L. J. Harper
Patrick Creek area
Del Norte County, California

This property was examined April 29, 1952 by W. P. Irwin and J. F. Robertson of the Geological Survey, in connection with application for a $52,000 exploration proposal. They recommend denial of the application because there is little possibility of finding sufficient chromite to justify the proposed expenditures. The geologic basis of the proposal is not sound, and the geophysical justification appears to be based on misconceptions on the part of the applicants.

I concur with the Field Team recommendation that the proposal be denied.

D. M. Lemmon

DMLemmon:gt

Copy retained 400

400

COPY

Office of
Executive Officer
DMEA Field Team
Region III

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

May 20, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2331 (chrome) - Toujour Gai, et al, Claims Del Norte County, California

Reference is made to your "Review of Application for Exploration Assistance" dated March 3, 1952.

The subject property has been examined by geologists of the Geological Survey and four copies of a report, "DMEA-2331, Patrick Creek Chromite Claims, Del Norte County, California", by W. P. Irwin and J. F. Robertson, dated May 15, 1952, are attached.

The examining geologists recommend that the requested loan be denied, as the probability of finding sufficient chrome ore to justify the loan is poor.

Subject docket is returned herewith.

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

Attachment

Copy to E. H. Bailey, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2331, Patrick Creek Chromite Claims

Del Norte County, California

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Adm.
MAY 20 1952

W. P. Irwin, Geologist
J. F. Robertson, Geologist
U. S. Geological Survey

May 15, 1952

Reviewed by
DMEA OPERATING COMMITTEE
6-2-52
(date)

Messers. E. J. Petersen and L. J. Harper applied to DMEA for Government assistance in a $52,000 program to explore their chromite claims in the Patrick Creek area of Del Norte County, California. In response to a request from DMEA, W. P. Irwin and J. F. Robertson of the Geological Survey examined the claims on April 29, 1952 in the company of the owners. It is recommended that the applicants be denied the requested Government aid, as the probability of finding sufficient chrome ore to justify the expense of the proposed exploration program is poor.

The applicants' property consists of 12 claims on a high ridge at the head of Patrick Creek and Diamond Creek in secs. 17,18,19 and 20, T. 18 N., R. 3 E., HBM, and it is accessible by a 10-mile dirt road that connects with U. S. Highway 199 at Patrick Creek Inn. The claims cover several small, widely separated deposits of chromite in serpentinized ultramafic rock. Most of the claims, according to the owners, are not worth further prospecting, and the applicants are interested only in prospecting Sunshine claim Nos. 1,2, and 4.

Mr. Petersen believes that the small scattered showings of chromite are "offshoots" from an enormous body of chromite that forms the "core" of the mountain. The presence of this chromite core has been determined supposedly by a geophysical instrument of Mr. Petersen's design, an instrument that is reported to not only locate a mineral deposit, but to also indicate the composition, tonnage, and grade of ore. He proposes to prove the presence of the chromite core by drilling a deep vertical hole near the south side of the Sunshine No. 1 claim. Irwin and Robertson saw no evidence to warrant the proposed drill hole.

Exploration of the Sunshine Nos. 2 and 4 claims is based on a possible extension of the Holiday chromite deposit that is currently being mined by a Mr. Carlsen (see plates 1 and 2).

The Holiday deposit occurs as a vein-like body of massive, high grade chromite ore in serpentinized ultramafic rock. In thickness the ore pinches and swells from a few inches to as much as 3 feet. It strikes northeast and dips 40 degrees southeast, and can be traced down the dip for about 50 feet in the Holiday open cut. It cannot be trace for more than a few tens of feet along its strike, owing to the heavy overburden. The serpentinized rock has been sheared complexly, and, as seen at several places in the open cut, faults have displaced the vein a few feet.

The applicants propose to explore for a possible continuation of the Holiday deposit by drilling two vertical holes several hundred feet deep from points at the northeast end of the Sunshine No. 4 claim and southwest end of the Sunshine No. 2 claim, about 500 feet higher than the Holiday open cut. If a chromite body is encountered, a tunnel would be driven to intersect the deposit.

The proposed drill holes would be about 1500 feet from the nearest exposure of the vein in the Holiday open cut, and it is doubtful that the deposit can be projected reasonably for that distance. Few chromite deposits are known to be continuous for that length. Moreover, the attitude of the deposit may be radically different a short distance from the Holiday open cut, and such a difference may place an extension of the deposit beyond reach of the proposed drill holes.

The legal factor of extralateral rights of the Holiday claim must also be considered. Although the Sunshine Nos. 2 and 4 claims are aligned approximately with a structure contour on the vein at the altitude of the Holiday open cut, the apex of an extension of the vein beyond the Holiday open cut may lies mainly within the boundary of the Holiday claim. In such a case, serious controversy may arise as to the ownership of any ore that might underlie the Sunshine No. 4 claim. The problem is particularly complex owing to the lack of knowledge of the location of the apex of the vein. Although the applicant did not mention this problem, it is apparent that controversy would arise in the event ore was discovered to underlie the Sunshine No. 4 claim.

Participation in the exploration program is not recommended as the program is too speculative and the ownership of possible ore on the Sunshine No. 4 claim is too dubious to warrant Government aid.

Plate 2. View of Holiday Chromite Mine, looking north. Inked lines show approximate trace of vein-like chromite body off-set by fault. Chromite body striked northeast in serpentinized ultramafic rock. The adits are about 15 feet in length.

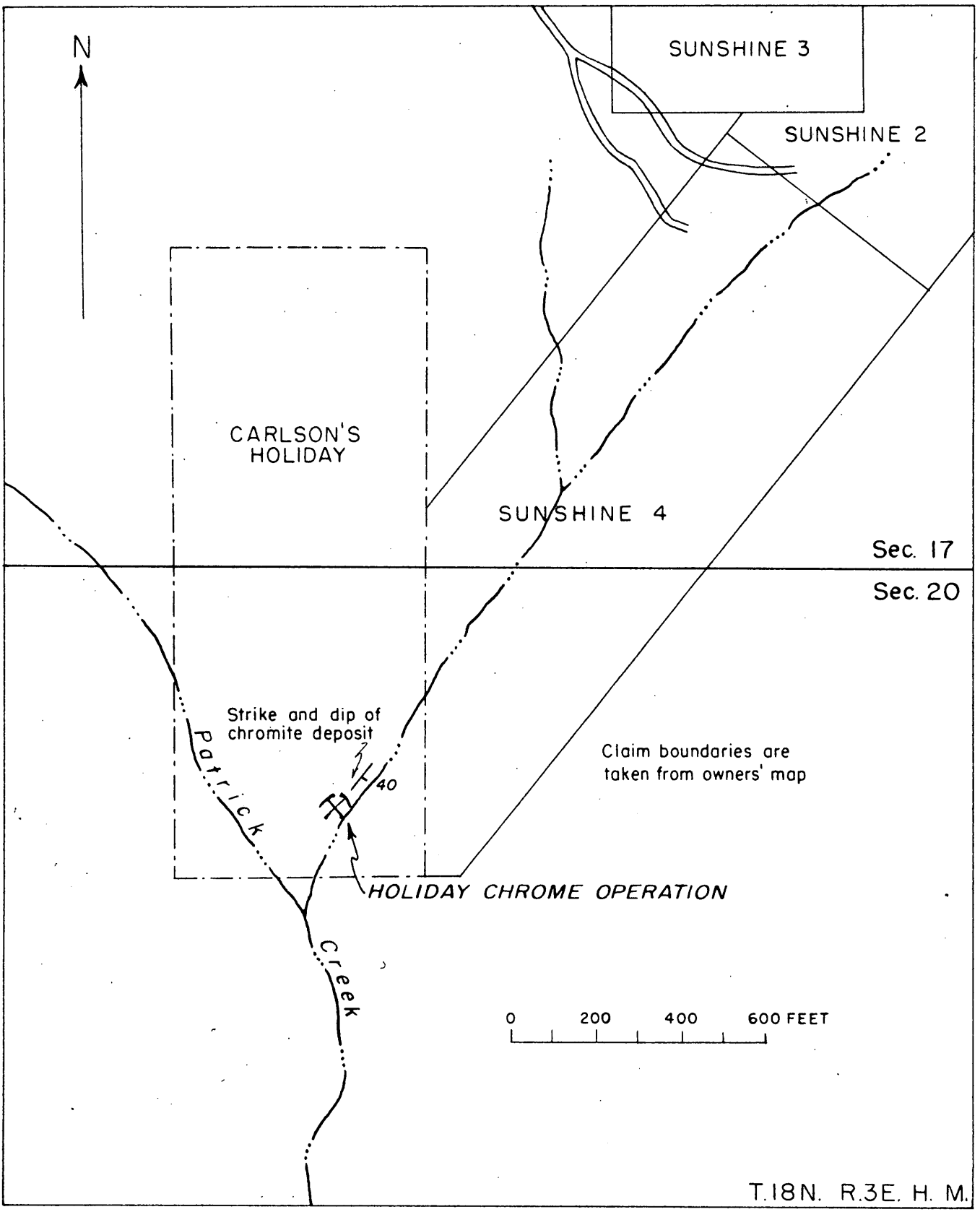

PLATE I.
MAP SHOWING LOCATION OF HOLIDAY AND SUNSHINE CLAIMS
DEL NORTE COUNTY, CALIFORNIA

400

FILE COPY
SURNAME: Sol

Chapman
Selfridge
Hedgpeth
Nielsen
Remmer
Hedges
Petersen

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

JUN 12 1952

Mr. N. J. Petersen
Room 20
206 Columbia Street
Seattle 4, Washington

Re: Docket No. DMRA 2331X - Chrome
Toujour Gai, et al, Claims
Del Norte County, California

Dear Mr. Petersen:

Your application for an exploration lease in conjunction with other information available to us in Washington has been carefully reviewed.

The information, while noting a relatively small amount of high grade ore, indicates that, geologically, there is little probability of making a significant mineral discovery. We regret, therefore, to inform you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Program and for your patience and effort in this respect.

Sincerely yours,

C. O. Mittendorf (fw) J.N. 6.12.52

Acting Administrator
Defense Minerals Exploration
Administration

TLChapman:lm
6/4/52

cc: Admn. Reading File
Docket
N. B. Melcher, USBM
T. P. Thayer, USGS
Field Team Reg. III
Operating Committee
G. C. Selfridge
T. L. Chapman

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Acting Administrator, DMEA

DATE: June 4, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

SUBJECT: Denial of exploration project in the amount of $52,000.00
Docket No. DMEA 2331X - Chrome
E. J. Petersen and L. J. Harper
Toujour Gai, et al, claims
Del Norte County, California

The subject application was denied by this Division for the following reasons:

1. The claims cover several small, widely separated deposits of chromite in serpentinized rocks. The ore, while of a good grade, occurs in relatively small lenses and there is little possibility of making a significant discovery.

2. These properties have produced between 400 and 700 tons of chrome ore of a good grade. This ore was mined from depths of 30 feet and less and extended work failed to open up any substantial tonnage of ore.

3. The Commodity Division of the U. S. Geological Survey concurred with the field team and recommended denial.

G. C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

FILE COPY 400
SURNAME:

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

Acting Administrator, DMEA

June 4, 1952

Chapman
Selfridge
Hopik
Kelley
Lemmon

Iron and Ferro-Alloy Division, DMEA

Denial of exploration project in the amount of $52,000.00
Docket No. DMEA 2331X - Chrome
E. J. Petersen and L. J. Harper
Toujour Gai, et al, claims
Del Norte County, California

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2. These properties have produced between 400 and 700 tons of chrome ore of a good grade. This ore was mined from depths of 30 feet and less and extended work failed to open up any substantial tonnage of ore.

3. The Commodity Division of the U. S. Geological Survey concurred with the field team and recommended denial.

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

TLChapman'lm
6/4/52

cc: Admn. Reading File
✓ Docket
G. C. Selfridge
T. L. Chapman

IN REPLY REFER TO:

G-MD-DML

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

June 2, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report, Exploration application DMEA 2331 - Chromite
Toujour Gai claims
E. J. Petersen and L. J. Harper
Patrick Creek area
Del Norte County, California

This property was examined April 29, 1952 by W. P. Irwin and J. F. Robertson of the Geological Survey, in connection with application for a $52,000 exploration proposal. They recommend denial of the application because there is little possibility of finding sufficient chromite to justify the proposed expenditures. The geologic basis of the proposal is not sound, and the geophysical justification appears to be based on misconceptions on the part of the applicants.

I concur with the Field Team recommendation that the proposal be denied.

DM Lemmon

JUN 2 1952

Copy retained 400

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

Office of
Executive Officer
DMEA Field Team
Region III

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

May 20, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2331 (Chrome) - Toujour Gai, et al, Claims Del Norte County, California

Reference is made to your "Review of Application for Exploration Assistance" dated March 3, 1952.

The subject property has been examined by geologists of the Geological Survey and four copies of a report, "DMEA-2331, Patrick Creek Chromite Claims, Del Norte County, California", by W. P. Irwin and J. F. Robertson, dated May 15, 1952, are attached.

The examining geologists recommend that the requested loan be denied, as the probability of finding sufficient chrome ore to justify the loan is poor.

Subject docket is returned herewith.

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

Attachment

Copy to E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 20 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2331, Patrick Creek Chromite Claims

Del Norte County, California

DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Denver
MAY 26 1952

W. P. Irwin, Geologist
J. F. Robertson, Geologist
U. S. Geological Survey

May 15, 1952

Reviewed by
DMEA OPERATING COMMITTEE

6-2-52
(date)

Messers. E. J. Petersen and L. J. Harper applied to DMEA for Government assistance in a $52,000 program to explore their chromite claims in the Patrick Creek area of Del Norte County, California. In response to a request from DMEA, W. P. Irwin and J. F. Robertson of the Geological Survey examined the claims on April 29, 1952 in the company of the owners. It is recommended that the applicants be denied the requested Government aid, as the probability of finding sufficient chrome ore to justify the expense of the proposed exploration program is poor.

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The Holiday deposit occurs as a vein-like body of massive, high grade chromite ore in serpentinized ultramafic rock. In thickness the ore pinches and swells from a few inches to as much as 3 feet. It strikes northeast and dips 40 degrees southeast, and can be traced down the dip for about 50 feet in the Holiday open cut. It cannot be trace for more than a few tens of feet along its strike, owing to the heavy overburden. The serpentinized rock has been sheared complexly, and, as seen at several places in the open cut, faults have displaced the vein a few feet.

The applicants propose to explore for a possible continuation of the Holiday deposit by drilling two vertical holes several hundred feet deep from points at the northeast end of the Sunshine No. 4 claim and southwest end of the Sunshine No. 2 claim, about 500 feet higher than the Holiday open cut. If a chromite body is encountered, a tunnel would be driven to intersect the deposit.

The proposed drill holes would be about 1500 feet from the nearest exposure of the vein in the Holiday open cut, and it is doubtful that the deposit can be projected reasonably for that distance. Few chromite deposits are known to be continuous for that length. Moreover, the attitude of the deposit may be radically different a short distance from the Holiday open cut, and such a difference may place an extension of the deposit beyond reach of the proposed drill holes.

The legal factor of extralateral rights of the Holiday claim must also be considered. Although the Sunshine Nos. 2 and 4 claims are aligned approximately with a structure contour on the vein at the altitude of the Holiday open cut, the apex of an extension of the vein beyond the Holiday open cut may lie mainly within the boundary of the Holiday claim. In such a case, serious controversy may arise as to the ownership of any ore that might underlie the Sunshine No. 4 claim. The problem is particularly complex owing to the lack of knowledge of the location of the apex of the vein. Although the applicant did not mention this problem, it is apparent that controversy would arise in the event ore was discovered to underlie the Sunshine No. 4 claim.

Participation in the exploration program is not recommended as the program is too speculative and the ownership of possible ore on the Sunshine No. 4 claim is too dubious to warrant Government aid.

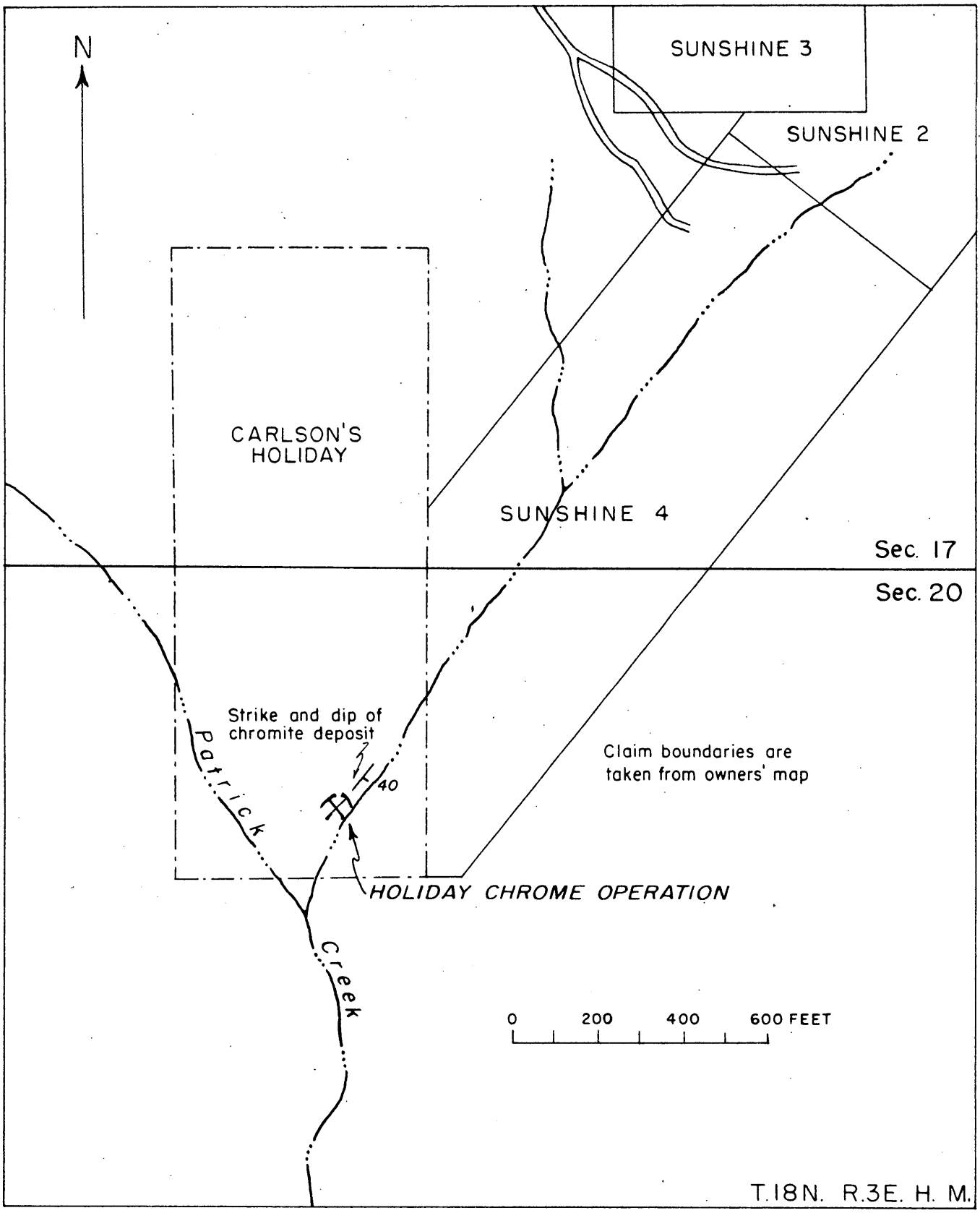

PLATE I.
MAP SHOWING LOCATION OF HOLIDAY AND SUNSHINE CLAIMS
DEL NORTE COUNTY, CALIFORNIA

Plate 2. View of Holiday Chromite Mine, looking north. Inked lines show approximate trace of vein-like chromite body off-set by fault. Chromite body strikes northeast in serpentinized ultramafic rock. The adits are about 15 feet in length.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

MAR 3 1952

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

Brewer
Selfridge
Nielsen

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant L. J. Harper and E. J. Petersen

Docket No. 2331

Commodity Chrome

Amount $ 52,000.00

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

R. H. Wedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2331

Commodity Chrome

Total Amount $52,000.00

Govt. Participation $26,000.00

1. Name and Address of Applicant L. J. Harper and E. J. Petersen

Room 20, 208 Columbia Street, Seattle 4, Washington

2. Location of Property Diamond Creek District

Del Norte County, California

3. Mineral or metal Chromite Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor Very poor

c) None

d) Don't know—needs field examination No recent data in Washington

e) Is there an alternative and favorable project? Don't know
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No

Does the lease have sufficient time to run to cover a future

productive period? -----

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202? _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes(Apparently depending on time of year)

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Possibly - Provided he obtains cores for field team inspection, using split cores for analyses

Is a field check needed on this point? Yes

10. Exhibit A. (question 21 and 22)*

a) Is the project adequately described? No - Details of hole placement are lacking, also details of geologic targets

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

_____

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

_____

_____

_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? **Not in some instances**

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? **No** If so, attach a draft.

e) Are the cost estimates reasonable? **Yes**

f) Should more information be requested from applicant? **Yes**

g) Is a field examination necessary to complete Exhibit A? **Yes**

11. Exhibit B (question 23-d)*

a) Is it applicable? **No**

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? **Yes**

b) Sufficient data? **No** If so, attach a draft.

c) Are rents and charges reasonable? **Can't tell - Does not give present value of equipment.**

d) Is a field check needed? **Yes**

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? **Yes**

b) Is the schedule adequate for the work proposed? **No (See below)**

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable? **Yes**

e) Is a field check needed? **Yes**

Note: **The item of $900 for bookkeeping, engineering and accounting on a $52,000 project is foolish. Capable engineering must accompany an expenditure of this magnitude. A competent engineer must be on hand at all times and shall log the holes, make geological maps and cross sections. This item should be more nearly $5,000.**

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data?

c) Reasonable?

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? Don't know - Does not specify total footage to be drilled.

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? Yes. The applicant's geological discourse is quite muddled, and reflects a dependence upon a continuity of structure commonly found in fissure veins, and almost never found in occurrences of chromite. The field team is requested to report upon the ore occurrence and upon the probability of making a significant discovery. Also, the applicant is to do the diamond drilling; a report upon his efficiency in this regard is requested. (See foot note on page 3).

Enclosures;

1 - MF-100
1 - MF-103
1 - USGS opinion
1 - Map

Reviewed by: Q. L. Brewer

Date 2/25/52

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

MAR 3 1952

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

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Applicant L. J. Harper and E. J. Petersen

Docket No. 2331

Commodity Chrome

Amount $ 52,000.00

Please expedite consideration of the application with particular reference to the points raised in the attached "Review".

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:

J. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2331

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Total Amount $52,000.00

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5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? No

Does the lease have sufficient time to run to cover a future

productive period? ----

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202? _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

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(question 14 plus general knowledge of availability)*

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d) Water (question 13)* Yes(Apparently depending on time of year)

e) Power (question 13)* Yes

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9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Possibly - Provided he obtains cores for field team inspection, using split cores for analyses

Is a field check needed on this point? Yes

10. Exhibit A. (question 21 and 22)*

a) Is the project adequately described? No - Details of hole placement are lacking, also details of geologic targets

If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? No

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c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

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Is this part a worthwhile exploration project?_____

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Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? **No** If so, attach a draft.

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f) Should more information be requested from applicant? **Yes**

g) Is a field examination necessary to complete Exhibit A? **Yes**

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a) Is it applicable? **No**

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? **Yes**

b) Sufficient data? **No** If so, attach a draft.

c) Are rents and charges reasonable? **Can't tell - Does not give present value of equipment.**

d) Is a field check needed? **Yes**

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? **Yes**

b) Is the schedule adequate for the work proposed? **No (See below)**

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable? **Yes**

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Note: The item of $900 for bookkeeping, engineering and accounting on a $52,000 project is foolish. Capable engineering must accompany an expenditure of this magnitude. A competent engineer must be on hand at all times and shall log the holes, make geological maps and cross sections. This item should be more nearly $5,000.

14. Exhibit E (question 23-c)*

a) Is it applicable? **No**

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c) Reasonable?

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? **Don't know - Does not specify total footage to be drilled.**

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? **Yes. The applicant's geological discourse is quite muddled, and reflects a dependence upon a continuity of structure commonly found in fissure veins, and almost never found in occurrences of chromite. The field team is requested to report upon the ore occurrence and upon the probability of making a significant discovery. Also, the applicant is to do the diamond drilling; a report upon his efficiency in this regard is requested. (See foot note on page 3).**

Enclosures:

1 - MF-100
1 - MF-103
1 - USGS opinion
1 - Map

Reviewed by: **Q. L. Brewer**

Date **2/25/52**

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

Original surnamed by Brewer Selmidge Mitchell

MAR 3 1952

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

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Docket No. 2331

Commodity Chrome

Amount $ 52,000.00

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Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee (JHB)
Defense Minerals Exploration
Administration

S.N.
3-3-52

APPROVED:

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

T. P. Thayer (JHB)
Member, Geological Survey

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2331

Commodity Chrome

Total Amount $52,000.00

Govt. Participation $26,000.00

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Room 20, 208 Columbia Street, Seattle 4, Washington

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(question 5, 6, 7)*

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(question 14 plus general knowledge of availability)*

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d) Water (question 13)* Yes(Apparently depending on time of year)

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If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

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c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

_____

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Is this part a worthwhile exploration project?_____

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Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

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f) Should more information be requested from applicant? Yes

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b) If so, are sufficient data furnished?_____ If so, attach a draft.

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Enclosures:

1 - MT-100
1 - MT-103
1 - USGS opinion
1 - Map

Reviewed by: Q. L. Brewer

Date 2/25/52

FILE COPY
SURNAME:

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

Brewer
Selfridge
Hughes
Thayer
Johnson
Hughes
Kuchelmeister

MAR 3 1952

Mr. N. J. Petersen
Room 20
268 Columbia Street
Seattle 4, Washington

Re: Docket No. DMEA 2331X - Chrome
Toujour Gai, et al, Claims
Del Norte County, California

Dear Mr. Petersen:

In answer to your letter of February 19, 1952, you are herewith notified that your application for assistance in exploring the above noted property has been reviewed by the Iron and Ferro-Alloy Division of the Defense Minerals Exploration Administration and has been referred to Mr. N. 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 aid which you can give the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

P.N.
3-3-52

Acting Administrator
Defense Minerals Exploration
Administration

QLBrewer:lm
2/25/52

cc: Admn. Reading File
Docket
N. B. Melcher
T. P. Thayer
Field Team Reg. III
G. C. Selfridge
Q. L. Brewer

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Feb. 19, 1952

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

Subject: DMEA-2331 chrome & DMEA-2330 Re: Exploration Loan
Tour Your Gai claim and Red Dome Mercury claim.

Gentlemen:

At the time the above loans were applied for, it was set forth the importance of action by March 1, 1952.

In our application we indicated the properties were ready for immediate exploration work to begin at the above date and that all of the necessary equipment, buildings and man power were available. We further indicated the weather conditions would permit the work to start.

Unless we can get this operation under way in early spring, we will not be able to do the diamond drilling on parts of this property for another year. Economical conditions are such, it is impossible to raise money from private sources and unless we can get help now, we will be forced to sell off our equipment and call it a day.

If it possible to speed up the examination of these two prospecting loans, we will appreciate it greatly.

Yours very truly,

E. J. Petersen

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1952

FILE COPY
SURNAME:

Selfridge

FEB 8 1952

Mr. Ernest J. Petersen
Room 20
208 Columbia Street
Seattle 4, Washington

Re: Docket No. DMEA 2331 - Chrome
L. J. Harper and E. J. Petersen
Diamond Creek Mining District
Del Norte County, California

Dear Mr. Petersen:

In compliance with your letter of February 5, 1952, we have noted in the records of this office that all correspondence addressed either to you or to Mr. Harper concerning the subject docket shall be sent to Room 20, 308 Columbia Street, Seattle 4, Washington.

Sincerely yours,

G. C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

LScott:ls
2/7/52

Copy to: Admn. Reading File
Docket
G. C. Selfridge
Field Team, Region II

2-8-52

2-8-52

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Room 20

Feb. 5, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 7 1952

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

Gemtlemen:

Refer to Docket Number DMEA-2331, chrome Iron and Ferro-Alloys Division.

Kindly forward all future correspondence re subject matter to this office, if addressed to L. J. Harper, send it in care of this address.

Yours truly,

E. J. Petersen

IN REPLY REFER TO:

G-MD-TPT

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

January 31, 1952

Memorandum

To: George C. Selfridge, DMEA

From: T. P. Thayer Thayer

Subject: DMEA 2331 - Chromite
Harper and Peterson
208 Columbia St.
Seattle, Washington

The application presents no specific objectives in the form of described or postulated deposits, nor does it indicate any plan of attack. Since no additional information could be expected from correspondence, and there is a little chance on the Toujour Gai claim, the application will have to be referred to the field.

Sunshine Claim:

One of our field men thoroughly familiar with the area and both applicants tells me that Carlson drilled the Sunshine No. 1 with his own drill, and gave up in disgust. Our field man saw no chromite in place on the Sunshine.

Toujour Gai:

The Toujour Gai claim did yield some chromite at a slight profit from a relatively flat-lying seam or lens of chromite which was followed down essentially in open timbered stopes. The only target for a drill program would be possible down-dip extension of this deposit. The Geological Survey has not examined the deposit since the last mining, so an examination is in order.

Competence of the operators:

Carlson is an adequate operator, but Harper is a "doodle bug" artist without any competence in mining. The closest practicable control on location of drill holes, therefore, is recommended if any project is recommended.

The Sunshine claim should, of course, be examined when the team is in the area.

Carlson has a diamond drill, but his knowledge of coring techniques should be investigated. His drilling on the Holiday claim

was of little value, as no cores or records were kept. The holes were merely "buzzed down" with solid bits, while he watched for changes in the color of the wash water to indicate ore (brown water) or serpentine (white water). As a practical miner, Carlson may be hard to sell on the necessity for coring. His estimate of $1 a foot is partly explained by his technique.

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

G-MD-TPT

January 31, 1952

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To: George C. Selfridge, DMEA

From: T. P. Thayer

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Harper and Peterson
208 Columbia St.
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TPThayer:gt

Copies to: Director's read. file
Branch read. file

EXPLORATION

Subject: DMEA-2331
Re: Exploration Loan
Tour Your Gai Claim
January 22, 1952

Mr. L. J. Harper, Partner
208 Columbia Street
Seattle, Washington

My dear Mr. Harper:

This will acknowledge receipt of your application dated January 14, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2331 and referred to the Iron & Ferro-Alloys Division.

Kindly refer to DMEA-2331 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Acting Administrative Officer

7862

DMEA-2331

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Jan. 14, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1952

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

Gentlemen:

Enclosed you will find four copies of Form MF-100 which covers the Elk Camp Mine, Del Norte Calif. also, four copies each of Form MF-103 which embrace an application for a prospecting loan for Elk Camp Mine and the same for the Red Dome claim.

The Red Dome claim is a separate property from the Elk Camp Mine but owned jointly by the same owners of the Elk Camp property.

We have expended considerable money in preparing these properties for an extended operation in prospecting and are ready to proceed as soon as finances are available. It was hoped the property could be put into production without aid but now find it impossible to go on unless prospecting loans are granted.

These two properties present a possibility of huge mercury and chrome reserves. Only thorough prospecting will reveal the extent of the ore bodies. This we are prepared to proceed with for we have all of the necessary equipment. We need financial help in a hurry in order to start the operation in March, weather permitting.

May we have your full consideration in the matter.

Yours very truly,

E. J. Petersen

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2331
Metal or Mineral
Date Received 1-18-52
Amount $
Participation (Government %)

Name and address of applicant

L. J. Harper,
3907 N. Hinds St., Seattle, Wash.

E. J. Peterson,
5020 31st Ave. W., Seattle, Wash.

Joint owners

Office address:
208 Columbia St.,
Seattle, Wash.

Date January 14, 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1952

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

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

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

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

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

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

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

   see map

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

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

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

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

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

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

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item. none

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

   (*a*) Rented

   (*b*) Purchased see sheet attached

   (*c*) Furnished by you

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

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

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

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

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

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
    none

CERTIFICATION

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

(Name of company)	By L. J. Harper (Signature of authorized official)
(Date)	E. J. Petersen (Title) Joint owners of both mines.

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Application for a loan on chrome property. Form MF-103

L. J. Harper, 3907 N. Hinds St., Seattle, Wash. 6

E. J. Petersen, 3020 31st Ave. W., Seattle 99, Wash.

Answer to question No. 1.

1. (a) The Tour Your Gai claim, which is a part of the Elk Camp Mine group. The Sunshine claims Nos. 1, 2, 4 & 5. All of the above claims are recorded in the Recorder's Office for Del Norte County, California and are situated in T. 18 N. R. 3 E. H.M. Sections 17 and 18, and in the Diamond Creek (unorganized) Mining District.

(b) Owners

(c) Refer to (a) and attached map.

COPY

Application for a loan on chrom property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

2. (a) The deposits on Sunshine No. 1 claim appears to be a large instrusion of solid ore at depth, with an overlying group of kidneys in the center of the dome. The ore appears to rise from the south side of the dome, cropping on the N.E. side, which is in the Diamond Cr. canyon. Several diamond drill holes are necessary to determine the exact location of the ore bodies. A tunnel should be driven into the dome at the 300 foot level on the south side, to reach the kidneys. A shaft adjacent to the tunnel to reach the main body of ore. The croppings on the N. E. side of the dome, are high grade. The serpentine carries 7 lbs of chrome oxide to the ton.

The Sunshine claims Nos. 2 & 4, join end to end and join the side line of the Holiday Mine claim, close to the chrome operation now being conducted. The vein of high grade ore on the Holiday claim, strikes toward the end of Sunshine claim No. 4. The pitch of the serpentine hanging wall, exposed on Sunshine claims Nos. 4 & 2, indicates the possibility of the Holiday vein extending the entire length of these claims. The vein on the Holiday claim is widening as it is being mined toward our end line and is carrying an oxide content of 48 to 51%.

The Tour Your Gai claim, which is part of our property, produced chrome ore of 48 to 51% oxide content and 3 to 1 iron ratio. Approximately 700 tons of ore was mined during the years 1942 to 44 from surface workings and tunnels.

The Gene Brown chrome mine lies about four miles to the west of our property and has produced several thousand tons of high grade ore.

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

3. (a) The proposed work will consist of several diamond drill holes on all four claims and if necessary, shafts or drifts. The total cost of the project will not exceed $52,000.00.

(b) The applicants desire to continue exploratory work by March 1st 1952. (Exploratory work has been conducted for several months) All equipment is on the property and ready to start work. The proposed work will require about nine months to complete. Application is being made at this time for a separate loan on the Red Dome mercury claim, which is a separate property, but owned jointly by the above. The time estimated to complete the work on the chrome claims, is nine months. The mercury exploration will take about four months. Some of the equipment will be used on the mercury property when not in use on the chrome claims. Considering winter weather preventing exploration work, it is thought advisable to request 16 months to complete the work on both properties.

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

5. Camp buildings consist of a bunk house, cook house, laundry room, shower and toilets. Dimensions of building are 60x20'. Wood shed and storage building is 16x30'. Light plant building dimensions 12x16'. Cabin 10x12'. Water tank and shed. Buildings piped with hot and cold water and wired for electricity. General camp facilities for housing 15 men. Fuel storage facilities consist of two 550 gallon tanks mounted on platform.

COPY

Application for loan on chrome property. Form RF-103

L. J. Harpor, 3907 W. Minds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle99, Wash.

7. (a) None

(b) Possibility of larger air compressor needed.

(c) Depreciation

	Mo.	9 Mos.
($8.00 per hr.)		
1 Allis Chalmers HD 14 bulldozer, about 75 hours per mo.	$600.00	$5400.00
1 Chicago Pneumatic surface diamond drill-capacity 900' complete with 300' of drill rod and 100' casing and all necessary drill tools. Drill mounted on skids with tower--all almost new. It is extimated we will drill approximately 600' per month @ $1.00 per foot.	600.00	5400.00
1 High pressure water pump for diamond drill	20.00	180.00
1 Large low pressure water pump to supply water for drill	25.00	225.00
2 3000 Gal. water tanks and 1000' of 2½" water hose	20.00	180.00
1 10 KW 120-240 AC Light Plant	25.00	225.00
1 300 Amp GE gas driven elec. welder	25.00	225.00
1 4 wheel drive 1½ ton truck with winch	50.00	450.00
1 ½ ton International truck	25.00	225.00
1 Schramm 120 cu. ft. compressor	40.00	360.00
3 Jack hammers	15.00	135.00
Camp and other buildings	100.00	900.00
3 Ore cars, rail and water pipe	10.00	90.00
1 Small sump pump (gas driven)	5.00	45.00
Drill steel, bits and air hose for jack hammers	5.00	45.00
2 Fuel storage tanks (550 Gals. each)	10.00	90.00
	$1580.00	$14220.00

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3080 31st W. Seattle 99, Wash.

Answer to question 8.

		Per Mo.	9 Mos.
8.	3 miners @ $12.00 per day for 26 days and 30 days board @ $3.00 per day	$1206.00	$10,854.00
	1 timberman @ $15.00 per day for 26 days and 30 days board @ $3.00 per day	480.00	4,320.00
	1 supervisor @ $17.00 per day for 26 days and 30 days board @ $3.00 per day	532.00	4,788.00
	1 cook @ $290.00 per month and board	290.00	2,610.00
	Bookkeeping, Engineering and accounting @ $100.00 per month	100.00	900.00
		$2608.00	$23,472.00

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 N. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave. N. Seattle,99 Wash.

Answer to question 9.

9. Materials and supplies:

Lumber and timber	$1,500.00
Diamond drill bits	2,500.00
Steel and bits for jack hammers	600.00
Dynamite, caps and fuse	1,500.00
Miners tools, lubricants, spikes	500.00
Deisel fuel @ 17¢ per gal. 5000	850.00
Gasoline @ 19¢ per gal. 5000	950.00
Bulldozer maintenance	1,000.00
Misc. maintenance	500.00
Ins., Social Security tax, unemplyment & etc. estimated at 16% of payroll	3,755.52
	$13,355.52

COPY

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2331

Date received 1-18-52

L. J. Harper,
~~3907 W. Hinds~~ St., Seattle ~~6~~, Wn.

E. J. Petersen,
~~3020 31st Ave.~~, W. Seattle ~~99~~ 4, Wn
Room 20, 308 Columbia st,

new address 2/8/52

Joint owners

Office address:
208 Columbia St.,
Seattle, Wash.

Name and address of applicant

Date Jan. 14, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?

   see attached sheet

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

   see attached sheet

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.

3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 68 miles S.W. of Grants Pass, Ore.
   (*b*) Mining district. Diamond Cr. (unorganized)
   (*c*) Township, Section, Range. T. 18 N. Secs. 17 & 18 R. 3 E. HM.
   (*d*) County, State. Del Norte Co. Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1952

4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☐ Lessee.
   ☐ Contractor.

   Not in operation

5. Number of years in production 2 yrs. 1943-44
   If not in production or operation, estimated date when production will begin March 1, 1952

6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.

   see attached sheet

7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

   see attached sheet

16—63792-2

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	None						
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	None $	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)		none	none	none	
3. Quantity and grade of product sold or shipped (specify units of measure)	48-51% oxide chrome		1943-44	700	tons.

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. does not apply

12. Ore or Mineral Reserves:

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

see attached sheet

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

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve. does not apply

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows: does not apply

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)		none			

(*c*) If placer: does not apply

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

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

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

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

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

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

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

see attached sheet

14. Water Supply:

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

see attached sheet

15. Power:

State amount of power used, rate per hour, and source thereof. 10 KW AC plant owned. Power line 5 miles to the south.

16. Labor:

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

does not apply

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. see attached sheet

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

none

CERTIFICATION

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

(Name of company)

By L. L. Harper
(Signature of authorized official)

(Date)

President
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answer to question No. 1 Form MF-100.

1. Materials produced.

   (a) Chrome ore--48 to 51% oxide content--iron ratio 3 to 1.

   (b) All indications point to two possible platinum deposits situated on the south side of Sunshine Claim No. 1 and High Dome claim No. 1. Strong mercury indications in large open cut on High Dome No. 1 claim.

COPY

M. J. Hansen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 2 Form MF-100

2. The present name of the chrome property is, Elk Camp Mine, originally known and listed in geological report of Bureau of Mines, as the Tourjour Gai. The following claims have been added to this property by staking and recording in Recorder's Office, Del Norte County, Calif.

Blue Jay-Bulldozer-Tangerine-Sunshine Nos. 1, 2, 3, 4 & 5. The High Dome Nos. 1, 2 & 3.

(a) None
(b) 200 ft.
(c) None
(d) 500 ft. of open cuts--some 25 ft. in depth.

Drifts and tunnels open excepting portions of inclines which are flooded during the winter months. No pumping problems.

There are twelve claims in the group. The Tangerine claim produced 700 tons of high grade chrome ore and all of the tunnel and drifts are on this claim. All ore produced in this portion of the property, was in kidney form. An 18" square lead, pitches downward into a vein system and chimneys. Ore should be reached at a depth of 100 feet by shaft. All ore on the Bulldozer, Blue Jay and Tourjour Gai will be found in kidneys. The Sunshine No. 1 claim, is a huge dome and is situated on the ridge dividing Diamond Cr. and Patrick Cr. Two 3" leads are to be found on the north side. The general formation indicates a huge deposit of chrome ore at depth with kidneys overlying the structure. Diamond drill operations were started on the boundary line between Sunshine No. 1 and 5 claims. (Refer to map attached to MF Form 103.)

High Dome claim No. 1, is definitely a dome of kidneys and lies at the head of the vein system emanating from the Holiday claim in the canyon below, which is now in operation. Refer to map attached re Sunshine Nos. 2 & 4, on Form MF-103.

Considering the geological action and known leads on these claims, it is thought the property will produce huge quantities of high grade chrome at depth.

COPY

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 6 Form MF-100

6. Experience of operators.

L. J. Harper worked for Casleton in Alaska for 8 years on a large gold dredge. Handled most phases of the operation. Organized the Harper Brake Service in Seattle and conducted a very successful operation. Spent two years in the chrome area in Del Norte County, Calif. and considerable of this time on the Elk Camp Mine property diamond drilling and other general mining activities.

E. J. Petersen has had over 20 years of mining experience in Montana, Idaho, Washington and California. Familiar with the construction of mills, operation and development of mines. Eight years of this time has been spent in geophysical work and geology. The last three years, when the weather permitted, were spent in studying the chrome situation in Del Norte Co., Calif. Now developing the Dawn gold, nickle and platinum prospect in Del Norte Co.

COPY

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 7 Form MF-100

7. History:

The Elk Camp Mine originally was known as the Tourjour Gai Mine and located by a man named Webb. The property was sold to Linkhart and Messinger, who according to all known information, mined about 400 tons of very high grade chrome ore, which drew a premium for the ore ran as high as 51% oxide and an iron ratio of 3.1 to 1. According to information we have, the Tourjour Gai and the Brown Mine, which lies four miles to the west, were the only two mines that were paid a premium for their ore.

Previous to the Likhart and Messinger operation, we understand that about 300 tons of ore was mined and shipped.

Most of the ore was in kidney form and mined at depths not to exceed 30 feet. Later tunnels and drifts were driven in search of more ore. Some small kidneys were found but the main lead, where the kidneys cut off, pitched downward and no further work was done to pick up the ore. Later on an attempt was made to reach the ore but the operation was too expensive for the price of chrome at the time.

The ore pitches toward Patrick Cr. Canyon and just below the Sunshine No. 1 claim. The ore on the Holiday claim, now being operated in the bottom of the canyon below the Sunshine No. 1 and adjoining the Sunshine No. 4, pitches at about the same angle. The main body which we believe exists on the Sunshine No. 1 claim, appears to rise from the bottom of Patrick canyon and just north of the Red Dome Mercury claim, which is shown on map attached to Form MF-103.

(b) The Brown Mine, which lies directly to the west of the Elk Camp property about four miles, has been the best producer in the entire area. Shipped over 200,000 dollars worth of ore during the last war and has already filled his quota, (2000 tons) on the present stockpile contract. The holiday claim, which adjoins Sunshine No. 4 claim, shipped about $70,000 worth of chrome from broken segments of the present vein and expects to ship at least $75,000 worth of chrome this winter running 48-51% oxide, iron ratio 3 to 1.

(c) No reports.

COPY

L. J. Harper

E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answer to question No. 12 Form MF-100.

12. Refer to answer for question No. 7. The property consists of 12 claims, but only five are being considered for development at this time.

The ore on the Tourjour Gai pitches downward to the east and appears to be making into veins and chimneys. Diamond drilling has picked up 18" stringers but it is felt the main ore shoot will be found at about the 100 foot level.

The leads on the north side of the Sunshine No. 1 claim and the general formation indicates the large body is at depth, rising from the south and kidneys in the upper 300 foot zone. Sunshine No. 5 appears to lie over the main shoot and we propose to drill to depth on or near the south line of Sunshine No. 1.

The strike of the vein on the Holiday claim, which is owned by Carlson and in operation, enters the south line (end) of the Sunshine No. 4 and appears to continue on into the Sunshine No. 2 claim. This assumption is drawn from the fact the serpentine on the hanging wall side of the Holiday vein carries thru and is exposed in may places, dipping at the same angle.

COPY

L. J. Harper
E. J. Petersen

208 Columbia St.
Seattle, Wash.

Answer to question No. 13 Form MF-100

13. Access Roads:

Refer to map attached to Form MF-103.

Every portion of the Elk Camp property is accessible by dirt roads. The road running along the top of the ridge a distance of four miles out to the county road that leads into Obrien, Ore., is dirt, but we intend to improve it as the mine goes into production. The county road is surfaced with gravel to Obrien. There it enters highway No. 199 into Grants Pass, Ore., where the stockpile is. The distance into Grants Pass from Elk Camp on this route, is 48 miles and eliminates the passes on Highway 199 between Patrick Cr. and Obrien, Ore.

A mountain road 7 miles in length, goes down Patrick Cr. to Highway No. 199 and it is then 28 miles into Crescent City, Calif.

COPY

R. J. Petersen,

L. J. Harper,
208 Columbia St.,
Seattle, Wash.

Answer to question No. 14. Form MF-100

14. Elk Camp is supplied with water from an adjacent spring which furnishes the requirements of the camp with the exception of late fall during a long dry summer. By careful use at this time, there is no shortage.

An incline tunnel on the Tourjour Gis claim, stores enough water during the winter for all requirements in that area.

A spring near the west end of Sunshine No. 1 claim, produces enough water for drilling purposes there.

The headwaters of Patrick Creek furnish an ample supply of water for all purposes on Sunshine claims Nos. 2 & 4.

COPY

L. J. Harper,

E. J. Petersen,
208 Columbia St.,
Seattle, Wash.

Answer to question No. 17. Form MF-100

17. The camp consists of four buildings in fair condition. The main building which houses the sleeping quarters, shower, toilets, laundry room and kitchen, is 20' x 60'. The cooking and heating is done with wood. It will be necessary to install propane gas for cooking purposes when the mine is in operation. Fuel and gasoline are delivered to the property from Crescent City, Calif.

Adjacent to the main building, is the wood shed and storage structure which is 16'x30'. The light plant and shop are in a building 12'x16'. Separate cabin for sleeping quarters is 10'x12'. Water tank covered with shed. Fuel storage consists of two 550 Gal. tanks mounted upon platform. All camp facilities in working order and ready for occupancy.

Equipment:
1 Allis Chalmers HD-14 bulldozer in A-1 condition.
1 Chicago Pneumatic diamond drill, mounted on steel skids with steel tower (gas. powered) 300' drill rod, 100' casing, bits and all tools complete. This equip. is new. Capacity up to 900'.
1 High pressure pump, mounted on steel skids and trailer, to furnish water to diamond drill.
1 Large fire pump to supply water for drilling and fires.
2 3000 Gal. water tanks and 1000' of 2½" fire hose.
1 10 KW AC 120-240 light plant.
1 300 Amp GE gas driven Elec. welder mounted on trailer.
1 4 wheel drive 1½ ton heavy duty truck, fully equiped.
1 ½ ton International pick-up truck.
1 Schramm 120 Cu. Ft. compressor, complete.
1 Small sump pump, jack hammers, hose, steel, bits and shop equip.

All of the above equipment is in perfect working order and ready for immediate use.

COPY

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2331
Metal or Mineral
Date Received 1-18-52
Amount $
Participation (Government %)

Name and address of applicant

L. J. Harper,
3907 W. Hinds St. Seattle, Wash.

E. J. Petersen,
3020 31st Ave. W., Seattle, Wash.

Joint owners

Office address:
208 Columbia St.,
Seattle, Wn.

Date January 14, 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. see sheet attached

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

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

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

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

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

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

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

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

3. (*a*) Describe fully the proposed work and give the total cost of the project. see sheet attached
   (*b*) State the time required to start the project and to complete it.

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

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

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item. none

7. Furnish a detailed list of operating equipment, separated into items to be—
   (*a*) Rented
   (*b*) Purchased
   (*c*) Furnished by you see sheet attached

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

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

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

10. (*a*) How much are you prepared to invest in the proposed project? one-half cost
    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)? yes

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
    None

CERTIFICATION

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

(Name of company)

By L. J. Harper
(Signature of authorized official)
L. J. Harper, owner

(Date)

By E. J. Petersen
(Title)
E. J. Petersen, owner

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Application for a loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle, Wash. 6

E. J. Petersen, 3020 31st Ave. W., Seattle 99, Wash.

Answer to question No. 1.

1. (a) The Tour Your Gai claim, which is a part of the Elk Camp Mine group. The Sunshine claims Nos. 1, 2, 4 & 5. All of the above claims are recorded in the Recorder's Office for Del Norte County, California and are situated in T. 18 N. R. 3 E. H.M. Sections 17 and 18, and in the Diamond Creek (unorganized) Mining District.

(b) Owners

(c) Refer to (a) and attached map.

COPY

Application for a loan on chrom property. Form MF-103

L. J. Harper, 3907 S. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

2. (a) The deposits on Sunshine No. 1 claim appears to be a large instrusion of solid ore at depth, with an overlying group of kidneys in the center of the dome. The ore appears to rise from the south side of the dome, cropping on the N.E. side, which is in the Diamond Cr. canyon. Several diamond drill holes are necessary to determine the exact location of the ore bodies. A tunnel should be driven into the dome at the 300 foot level on the south side, to reach the kidneys. A shaft adjacent to the tunnel to reach the main body of ore. The croppings on the N. E. side of the dome, are high grade. The serpentine carries 7 lbs of chrome oxide to the ton.

The Sunshine claims Nos. 3 & 4, join end to end and join the side line of the Holiday Mine claim, close to the chrome operation now being conducted. The vein of high grade ore on the Holiday claim, strikes toward the end of Sunshine claim No. 4. The pitch of the serpentine hanging wall, exposed on Sunshine claims Nos. 4 & 2, indicates the possibility of the Holiday vein extending the entire length of these claims. The vein on the Holiday claim is widening as it is being mined toward our end line and is carrying an oxide content of 48 to 51%.

The Four Your Gal claim, which is part of our property, produced chrome ore of 48 to 51% oxide content and 3 to 1 iron ratio. Approximately 700 tons of ore was mined during the years 1942 to 44 from surface workings and tunnels.

The Gene Brown chrome mine lies about four miles to the west of our property and has produced several thousand tons of high grade ore.

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

3. (a) The proposed work will consist of several diamond drill holes on all four claims and if necessary, shafts or drifts. The total cost of the project will not exceed $52,000.00.

(b) The applicants desire to continue exploratory work by March 1st 1952. (Exploratory work has been conducted for several months) All equipment is on the property and ready to start work. The proposed work will require about nine months to complete. Application is being made at this time for a separate loan on the Red Dome mercury claim, which is a separate property, but owned jointly by the above. The time estimated to complete the work on the chrome claims, is nine months. The mercury exploration will take about four months. Some of the equipment will be used on the mercury property when not in use on the chrome claims. Considering winter weather preventing exploration work, it is thought advisable to request 18 months to complete the work on both properties.

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 N. Hinds St., Seattle 8, Wash.

E. J. Petersen, 3080 31st Ave., West, Seattle 99, Wash.

5. Camp buildings consist of a bunk house, cook house, laundry room, shower and toilets. Dimensions of building are 60x20'. Wood shed and storage building is 16x30'. Light plant building dimensions 12x16'. Cabin 10x12'. Water tank and shed. Buildings piped with hot and cold water and wired for electricity. General camp facilities for housing 15 men. Fuel storage facilities consist of two 550 gallon tanks mounted on platform.

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 N. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle99, Wash.

7. (a) None

(b) Possibility of larger air compressor needed.

(c) Depreciation

	($8.00 per hr.)	Mo.	9 Mos.
1 Allis Chalmers HD 14 bulldozer, about 75 hours per mo.		$600.00	$5400.00
1 Chicago Pneumatic surface diamond drill-capacity 900' complete with 300' of drill rod and 100' casing and all necessary drill tools. Drill mounted on skids with tower--all almost new. It is extimated we will drill approximately 600' per month + $1.00 per foot.		600.00	5400.00
1 High pressure water pump for diamond drill		20.00	180.00
1 Large low pressure water pump to supply water for drill		25.00	225.00
2 3000 Gal. water tanks and 1000' of 2½" water hose		20.00	180.00
1 10 KW 120-240 AC Light Plant		25.00	225.00
1 300 Amp GE gas driven Elec. welder		25.00	225.00
1 4 wheel drive 1½ ton truck with winch		50.00	450.00
1 ½ ton International truck		25.00	225.00
1 Schramm 120 cu. ft. compressor		40.00	360.00
3 Jack hammers		15.00	135.00
Camp and other buildings		100.00	900.00
3 Ore cars, rail and water pipe		10.00	90.00
1 Small sump pump (gas driven)		5.00	45.00
Drill steel, bits and air hose for jack hammers		5.00	45.00
2 Fuel storage tanks (550 Gals. each)		10.00	90.00
		$1580.00	$14220.00

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3307 [illegible]. Hinds St., Seattle 6, Wash.

L. J. Petersen, 3030 31st [illegible]. Seattle 99, Wash.

Answer to question 8.

		Per Mo.	9 Mos.
8.	3 miners @ $12.00 per day for 26 days and 30 days board @ $3.00 per day	$1206.00	$10,854.00
	1 timberman @ $15.00 per day for 26 days and 30 days board @ $3.00 per day	480.00	4,320.00
	1 supervisor @ $17.00 per day for 26 days and 30 days board @ $3.00 per day	532.00	4,78[illegible].00
	1 cook @ $290.00 per month and board	290.00	2,610.00
	Bookkeeping, Engineering and accounting @ $1[illegible].00 per month	1[illegible].00	900.00
		$2308.00	$23,472.00

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 N. Minds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave. W. Seattle, 99 Wash.

Answer to question 9.

9. Materials and supplies:

Lumber and timber	$1,500.00
Diamond drill bits	2,500.00
Steel and bits for jack hammers	600.00
Dynamite, caps and fuse	1,500.00
Miners tools, lubricants, spikes	500.00
Deisel fuel @ 17¢ per gal. 5000	850.00
Gasoline @ 19¢ per gal. 5000	950.00
Bulldozer maintenance	1,000.00
Misc. maintenance	500.00
Ins., Social Security tax, unemployment & etc. estimated at 16% of payroll	3,755.52
	$13,555.52

Company Rent own drilling?

COPY

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2331

Date received 1-18-52

L. J. Harper,
3907 W. Hinds St., Seattle 6, Wn.

E. J. Petersen,
30 20 31st Ave. W. Seattle 99, Wn

Joint owners

Office address:
208 Columbia St.,
Seattle, Wash.

Name and address of applicant

Date Jan. 14, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?

   see attached sheet

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

   see attached sheet

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.

3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 68 miles SW of Grants Pass, Ore.
   (*b*) Mining district. Diamond Cr. (unorganized)
   (*c*) Township, Section, Range. T. 18 N. Secs. 17 & 18 R. 3 E. HM
   (*d*) County, State. Del Norte Co., Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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JAN 18 1952

4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☐ Lessee.
   ☐ Contractor.

   Not in operation

5. Number of years in production 2 yrs. 1943-44
   If not in production or operation, estimated date when production will begin March 1, 1952

6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.

   see attached sheet

7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

   see attached sheet

16—63792-2

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation		Life Insurance Carried for Benefit of Applicant	
				Common (e)	Preferred (f)	Amount (g)	Net Cash Surrender Value After Loans (h)
	None						
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$ None	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)		none	none	none	
3. Quantity and grade of product sold or shipped (specify units of measure)	48-51% oxide chrome		1943	-44	700 tons.

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. does not apply

12. Ore or Mineral Reserves:

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

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

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve. does not apply

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows: does not apply

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)		none			

(*c*) If placer: does not apply

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

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

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

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

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

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

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

see attached sheet

14. Water Supply:

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

see attached sheet

15. Power:

State amount of power used, rate per hour, and source thereof. 10 KW AC plant owned. Power line 5 miles to the south

16. Labor:

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

does not apply

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. see attached sheet

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

none

CERTIFICATION

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

(Name of company)

By (Signature of authorized official)

(Date)

(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answer to question No. 1 Form MF-100.

1. Materials produced.

   (a) Chrome ore--48 to 51% oxide content--iron ratio 3 to 1.

   (b) All indications point to two possible platinum deposits situated on the south side of Sunshine Claim No. 1 and High Dome claim No. 1. Strong mercury indications in large open cut on High Dome No. 1 claim.

COPY

E. J. Pearson
208 Columbia St.,
Seattle, Wash.

Answers to question No. 2 Form MF-100

2. The present name of the chrome property is, Elk Camp Mine, originally known and listed in geological report of Bureau of Mines, as the Tourjour Gai. The following claims have been added to this property by staking and recording in Recorder's Office, Del Norte County, Calif.

Blue Jay-Bulldozer-Tangerine-Sunshine Nos. 1, 2, 3, 4 & 5. The High Dome Nos. 1, 2 & 3.

(a) None
(b) 200 ft.
(c) None
(d) 500 ft. of open cuts--some 25 ft. in depth.

Drifts and tunnels open excepting portions of inclines which are flooded during the winter months. No pumping problems.

There are twelve claims in the group. The Tangerine claim produced 700 tons of high grade chrome ore and all of the tunnel and drifts are on this claim. All ore produced in this portion of the property, was in kidney form. An 18" square lead, pitches downward into a vein system and chimneys. Ore should be reached at a depth of 100 feet by shaft. All ore on the Bulldozer, Blue Jay and Tourjour Gai will be found in kidneys. The Sunshine No. 1 claim, is a huge dome and is situated on the ridge dividing Diamond Cr. and Patrick Cr. Two 3" leads are to be found on the north side. The general formation indicates a huge deposit of chrome ore at depth with kidneys overlying the structure. Diamond drill operations were started on the boundary line between Sunshine No. 1 and 5 claims. (Refer to map attached to MF Form 103.)

High Dome claim No. 1, is definitely a dome of kidneys and lies at the head of the vein system emanating from the Holiday claim in the canyon below, which is now in operation. Refer to map attached re Sunshine Nos. 2 & 4, on Form MF-103.

Considering the geological action and known leads on these claims, it is thought the property will produce huge quantities of high grade chrome at depth.

COPY

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 6 Form MF-100

6. Experience of operators.

L. J. Harper worked for Casleton in Alaska for 8 years on a large gold dredge. Handled most phases of the operation. Organized the Harper Brake Service in Seattle and conducted a very successful operation. Spent two years in the chrome area in Del Norte County, Calif. and considerable of this time on the Elk Camp Mine property diamond drilling and other general mining activities.

E. J. Petersen has had over 20 years of mining experience in Montana, Idaho, Washington and California. Familiar with the construction of mills, operation and development of mines. Eight years of this time has been spent in geophysical work and geology. The last three years, when the weather permitted, were spent in studying the chrome situation in Del Norte Co., Calif. Now developing the Dawn gold, nickle and platinum prospect in Del Norte Co.

COPY

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 7 Form MF-100

7. History:

The Elk Camp Mine originally was known as the Tourjour Gai Mine and located by a man named Webb. The property was sold to Linkhart and Messinger, who according to all known information, mined about 400 tons of very high grade chrome ore, which drew a premium for the ore ran as high as 51% oxide and an iron ratio of 3.1 to 1. According to information we have, the Tourjour Gai and the Brown Mine, which lies four miles to the west, were the only two mines that were paid a premium for their ore.

Previous to the Likhart and Messinger operation, we understand that about 300 tons of ore was mined and shipped.

Most of the ore was in kidney form and mined at depths not to exceed 30 feet. Later tunnels and drifts were driven in search of more ore. Some small kidneys were found but the main lead, where the kidneys cut off, pitched downward and no further work was done to pick up the ore. Later on an attempt was made to reach the ore but the operation was too expensive for the price of chrome at the time.

The ore pitches toward Patrick Cr. Canyon and just below the Sunshine No. 1 claim. The ore on the Holiday claim, now being operated in the bottom of the canyon below the Sunshine No. 1 and adjoining the Sunshine No. 4, pitches at about the same angle. The main body which we believe exists on the Sunshine No. 1 claim, appears to rise from the bottom of Patrick canyon and just north of the Red Dome Mercury claim, which is shown on map attached to Form MF-103.

(b) The Brown Mine, which lies directly to the west of the Elk Camp property about four miles, has been the best producer in the entire area. Shipped over 200,000 dollars worth of ore during the last war and has already filled his quota, (2000 tons) on the present stockpile contract. The holiday claim, which adjoins Sunshine No. 4 claim, shipped about $70,000 worth of chrome from broken segments of the present vein and expects to ship at least $75,000 worth of chrome this winter running 48-51% oxide, iron ratio 3 to 1.

(c) No reports.

COPY

E. J. Harper

E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answer to question No. 12 Form MF-100.

12. Refer to answer for question No. 7. The property consists of 12 claims, but only five are being considered for development at this time.

The ore on the Tourjour Cai pitches downward to the east and appears to be making into veins and chimneys. Diamond drilling has picked up 18" stringers but it is felt the main ore shoot will be found at about the 100 foot level.

The leads on the north side of the Sunshine No. 1 claim and the general formation indicates the large body is at depth, rising from the south and kidneys in the upper 300 foot zone. Sunshine No. 5 appears to lie over the main shoot and we propose to drill to depth on or near the south line of Sunshine No. 1.

The strike of the vein on the Holiday claim, which is owned by Carlson and in operation, enters the south line (end) of the Sunshine No. 4 and appears to continue on into the Sunshine No. 2 claim. This assumption is drawn from the fact the serpentine on the hanging wall side of the Holiday vein carries thru and is exposed in may places, dipping at the same angle.

COPY

L. J. Harper
E. J. Petersen

208 Columbia St.
Seattle, Wash.

Answer to question No. 13 Form MF-100

13. Access Roads:

Refer to map attached to Form MF-103.

Every portion of the Elk Camp property is accessible by dirt roads. The road running along the top of the ridge a distance of four miles out to the county road that leads into Obrien, Ore., is dirt, but we intend to improve it as the mine goes into production. The county road is surfaced with gravel to Obrien. There it enters Highway No. 199 into Grants Pass, Ore., where the stockpile is. The distance into Grants Pass from Elk Camp on this route, is 48 miles and eliminates the passes on Highway 199 between Patrick Cr. and Obrien, Ore.

A mountain road 7 miles in length, goes down Patrick Cr. to Highway No. 199 and it is then 28 miles into Crescent City, Calif.

COPY

A. J. Peterson,

L. J. Harper,
203 Columbia St.,
Seattle, Wash.

Answer to question No. 14. Form MF-100

14. Elk Camp is supplied with water from an adjacent spring which furnishes the requirements of the camp with the exception of late fall during a long dry summer. By careful use at this time, there is no shortage.

An incline tunnel on the Tourjour Gia claim, stores enough water during the winter for all requirements in that area.

A spring near the west end of Sunshine No. 1 claim, produces enough water for drilling purposes there.

The headwaters of Patrick Creek furnish an ample supply of water for all purposes on Sunshine claims Nos. 2 & 4.

COPY

L. J. Harper,

E. J. Petersen,
208 Columbia St.,
Seattle, Wash.

Answer to question No. 17. Form MF-100

17. The camp consists of four buildings in fair condition. The main building which houses the sleeping quarters, shower, toilets, laundry room and kitchen, is 20' x 60'. The cooking and heating is done with wood. It will be necessary to install propane gas for cooking purposes when the mine is in operation. Fuel and gasoline are delivered to the property from Crescent City, Calif.

Adjacent to the main building, is the wood shed and storage structure which is 15'x30'. The light plant and shop are in a building 15'x16'. Separate cabin for sleeping quarters is 10'x12'. Water tank covered with shed. Fuel storage consists of two 550 Gal. tanks mounted upon platform. All camp facilities in working order and ready for occupancy.

Equipment:
1 Allis Chalmers HD-14 bulldozer in A-1 condition.
1 Chicago Pneumatic diamond drill, mounted on steel skids with steel tower (gas. powered) 300' drill rod, 100' casing, bits and all tools complete. This equip. is new. Capacity up to 900'.
1 High pressure pump, mounted on steel skids and trailer, to furnish water to diamond drill.
1 Large fire pump to supply water for drilling and fires.
2 3000 Gal. water tanks and 1000' of 2½" fire hose.
1 10 KW AC 120-240 light plant.
1 300 Amp GE gas driven Elec. welder mounted on trailer.
1 4 wheel drive 1½ ton heavy duty truck, fully equiped.
1 ½ ton International pick-up truck.
1 Schramm 120 Cu. Ft. compressor, complete.
1 Small sump pump, jack hammers, hose, steel, bits and shop equip.

All of the above equipment is in perfect working order and ready for immediate use.

COPY

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2331
Metal or Mineral
Date Received 1-18-52
Amount $
Participation (Government %)

Name and address of applicant

L. J. Harper,
3907 W. Hinds St., Seattle, Wash.

E. J. Petersen,
3020 31st Ave. W., Seattle, Wash.

Office address:
208 Columbia St.,
Seattle, Wash.

Joint owners

Date January 14, 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

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

Department of the Interior
Defense Minerals Administration
RECEIVED
JAN 18 1952

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

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

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

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

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

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

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

   see map

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

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

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

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

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

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

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item. none

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

   (*a*) Rented

   (*b*) Purchased see sheet attached

   (*c*) Furnished by you

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

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

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

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

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

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.
    none

CERTIFICATION

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

(Name of company)	By L. J. Harper (Signature of authorized official)
(Date)	E. J. Petersen (Title)

Joint owners of both mines.

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Application for a loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle, Wash. 6

E. J. Petersen, 3020 31st Ave. W., Seattle 99, Wash.

Answer to question No. 1.

1. (a) The Tour Your Gai claim, which is a part of the Elk Camp Mine group. The Sunshine claims Nos. 1, 2, 4 & 5. All of the above claims are recorded in the Recorder's Office for Del Norte County, California and are situated in T. 18 N. R. 3 E. H.M. Sections 17 and 18, and in the Diamond Creek (unorganized) Mining District.

(b) Owners

(c) Refer to (a) and attached map.

Application for a loan on chrom property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

2. (a) The deposits on Sunshine No. 1 claim appears to be a large instrusion of solid ore at depth, with an overlying group of kidneys in the center of the dome. The ore appears to rise from the south side of the dome, cropping on the N.E. side, which is in the Diamond Cr. canyon. Several diamond drill holes are necessary to determine the exact location of the ore bodies. A tunnel should be driven into the dome at the 300 foot level on the south side, to reach the kidneys. A shaft adjacent to the tunnel to reach the main body of ore. The croppings on the N. E. side of the dome, are high grade. The serpentine carries 7 lbs of chrome oxide to the ton.

The Sunshine claims Nos. 2 & 4, join end to end and join the side line of the Holiday Mine claim, close to the chrome operation now being conducted. The vein of high grade ore on the Holiday claim, strikes toward the end of Sunshine claim No. 4. The pitch of the serpentine hanging wall, exposed on Sunshine claims Nos. 4 & 2, indicates the possibility of the Holiday vein extending the entire length of these claims. The vein on the Holiday claim is widening as it is being mined toward our end line and is carrying an oxide content of 48 to 51%.

The Tour Your Gai claim, which is part of our property, produced chrome ore of 48 to 51% oxide content and 3 to 1 iron ratio. Approximately 700 tons of ore was mined during the years 1942 to 44 from surface workings and tunnels.

The Gene Brown chrome mine lies about four miles to the west of our property and has produced several thousand tons of high grade ore.

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

3. (a) The proposed work will consist of several diamond drill holes on all four claims and if necessary, shafts or drifts. The total cost of the project will not exceed $52,000.00.

(b) The applicants desire to continue exploratory work by March 1st 1952. (Exploratory work has been conducted for several months) All equipment is on the property and ready to start work. The proposed work will require about nine months to complete. Application is being made at this time for a separate loan on the Red Dome mercury claim, which is a separate property, but owned jointly by the above. The time estimated to complete the work on the chrome claims, is nine months. The mercury exploration will take about four months. Some of the equipment will be used on the mercury property when not in use on the chrome claims. Considering winter weather preventing exploration work, it is thought advisable to request 16 months to complete the work on both properties.

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

5. Camp buildings consist of a bunk house, cook house, laundry room, shower and toilets. Dimensions of building are 60x20'. Wood shed and storage building is 16x30'. Light plant building dimensions 12x16'. Cabin 10x12'. Water tank and shed. Buildings piped with hot and cold water and wired for electricity. General camp facilities for housing 15 men. Fuel storage facilities consist of two 550 gallon tanks mounted on platform.

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle99, Wash.

7. (a) None

(b) Possibility of larger air compressor needed.

(c) Depreciation

	Mo.	9 Mos.
($8.00 per hr.)		
1 Allis Chalmers HD 14 bulldozer, about 75 hours per mo.	$600.00	$5400.00
1 Chicago Pneumatic surface diamond drill-capacity 900' complete with 300' of drill rod and 100' casing and all necessary drill tools. Drill mounted on skids with tower--all almost new. It is extimated we will drill approximately 600' per month @ $1.00 per foot.	600.00	5400.00
1 High pressure water pump for diamond drill	20.00	180.00
1 Large low pressure water pump to supply water for drill	25.00	225.00
2 3000 Gal. water tanks and 1000' of 2½" water hose	20.00	180.00
1 10 KW 120-240 AC Light Plant	25.00	225.00
1 300 Amp GE gas driven Elec. welder	25.00	225.00
1 4 wheel drive 1½ ton truck with winch	50.00	450.00
1 ½ ton International truck	25.00	225.00
1 Schramm 120 cu. ft. compressor	40.00	360.00
3 Jack hammers	15.00	135.00
Camp and other buildings	100.00	900.00
3 Ore cars, rail and water pipe	10.00	90.00
1 Small sump pump (gas driven)	5.00	45.00
Drill steel, bits and air hose for jack hammers	5.00	45.00
2 Fuel storage tanks (550 Gals. each)	10.00	90.00
	$1580.00	$14220.00

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st W. Seattle 99, Wash.

Answer to question 8.

		Per Mo.	9 Mos.
8.	3 miners @ $12.00 per day for 26 days and 30 days board @ $3.00 per day	$1206.00	$10,854.00
	1 timberman @ $15.00 per day for 26 days and 30 days board @ $3.00 per day	480.00	4,320.00
	1 supervisor @ $17.00 per day for 26 days and 30 days board @ $3.00 per day	532.00	4,788.00
	1 cook @ $200.00 per month and board	290.00	2,610.00
	Bookkeeping, Engineering and accounting @ $100.00 per month	100.00	900.00
		$2608.00	$23,472.00

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave. W. Seattle,99 Wash.

Answer to question 9.

9. Materials and supplies:

Lumber and timber	$1,500.00
Diamond drill bits	2,500.00
Steel and bits for jack hammers	600.00
Dynamite, caps and fuse	1,500.00
Miners tools, lubricants, spikes	500.00
Deisel fuel @ 17¢ per gal. 5000	850.00
Gasoline @ 19¢ per gal. 5000	950.00
Bulldozer maintenance	1,000.00
Misc. maintenance	500.00
Ins., Social Security tax, unemplyment & etc. estimated at 16% of payroll	3,755.52
	$13,555.52

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2931

Date received 1-18-52

L. J. Harper,
3907 W. Hinds St., Seattle 6, Wn.

E. J. Petersen,
3020 31st Ave., W. Seattle 99, Wn.

Joint owners

Office address:
208 Columbia St.,
Seattle, Wash.

Name and address of applicant

Date Jan. 14, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?

   see attached sheet

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

   see attached sheet

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 68 miles SW of Grants Pass, Ore.
   (*b*) Mining district. Diamond Cr. (unorganized)
   (*c*) Township, Section, Range. T. 18 N. R 3 E. HM Secs 17 & 18
   (*d*) County, State. Del Norte Co. Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1952

4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   ☐ Owner.
   ☐ Lessee.
   ☐ Contractor.

   Not in operation

5. Number of years in production 2 yrs. 1943-44
   If not in production or operation, estimated date when production will begin March 1, 1952
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project. see separate sheet.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

16—63792-2

see attached sheet

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
		None					
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$ None	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)		none	none	none	
3. Quantity and grade of product sold or shipped (specify units of measure)	48-51 % oxide chrome		1943-44	700 tons	

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. does not apply

12. Ore or Mineral Reserves:

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

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

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve. none -does not apply

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows: does not apply

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)		none			

(*c*) If placer: does not apply

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

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

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

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

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

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

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

see attached sheet

14. Water Supply:

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

see attached sheet

15. Power:

State amount of power used, rate per hour, and source thereof. 10 KW AC plant owned. Power line 5 miles to the south.

16. Labor:

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

none

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. see attached sheet

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

none

CERTIFICATION

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

(Name of company)

By L. L. Harper
(Signature of authorized official)

(Date)

E. Patterson
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

L. J. Harper

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Answer to question No. 1 Form MF-100.

1. Materials produced.

   (a) Chrome ore--48 to 51% oxide content--iron ratio 3 to 1.

   (b) All indications point to two possible platinum deposits situated on the south side of Sunshine Claim No. 1 and High Dome claim No. 1. Strong mercury indications in large open cut on High Dome No. 1 claim.

L. J. Harper

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Answers to question No. 2 Form MF-100

2. The present name of the chrome property is, Elk Camp Mine, originally known and listed in geological report of Bureau of Mines, as the Tourjour Gai. The following claims have been added to this property by staking and recording in Recorder's Office, Del Norte County, Calif.

Blue Jay-Bulldozer-Tangerine-Sunshine Nos. 1, 2, 3, 4 & 5. The High Dome Nos. 1, 2 & 3.

(a) None
(b) 200 ft.
(c) None
(d) 500 ft. of open cuts--some 25 ft. in depth.

Drifts and tunnels open excepting portions of inclines which are flooded during the winter months. No pumping problems.

There are twelve claims in the group. The Tangerine claim produced 700 tons of high grade chrome ore and all of the tunnel and drifts are on this claim. All ore produced in this portion of the property, was in kidney form. An 18" square lead, pitches downward into a vein system and chimneys. Ore should be reached at a depth of 100 feet by shaft. All ore on the Bulldozer, Blue Jay and Tourjour Gai will be found in kidneys. The Sunshine No. 1 claim, is a huge dome and is situated on the ridge dividing Diamond Cr. and Patrick Cr. Two 3" leads are to be found on the north side. The general formation indicates a huge deposit of chrome ore at depth with kidneys overlying the structure. Diamond drill operations were started on the boundary line between Sunshine No. 1 and 5 claims. (Refer to map attached to MF Form 103.)

High Dome claim No. 1, is definitely a dome of kidneys and lies at the head of the vein system emanating from the Holiday claim in the canyon below, which is now in operation. Refer to map attached re Sunshine Nos. 2 & 4, on Form MF-103.

Considering the geological action and known leads on these claims, it is thought the property will produce huge quantities of high grade chrome at depth.

L. J. Harper

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Answers to question No. 6 Form MF-100

6. Experience of operators.

L. J. Harper worked for Casleton in Alaska for 8 years on a large gold dredge. Handled most phases of the operation. Organized the Harper Brake Service in Seattle and conducted a very successful operation. Spent two years in the chrome area in Del Norte County, Calif. and considerable of this time on the Elk Camp Mine property diamond drilling and other general mining activities.

E. J. Petersen has had over 20 years of mining experience in Montana, Idaho, Washington and California. Familiar with the construction of mills, operation and development of mines. Eight years of this time has been spent in geophysical work and geology. The last three years, when the weather permitted, were spent in studying the chrome situation in Del Norte Co., Calif. Now developing the Dawn gold, nickle and platinum prospect in Del Norte Co.

L. J. Harper

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Answers to question No. 7 Form MF-100

7. History:

The Elk Camp Mine originally was known as the Tourjour Gai Mine and located by a man named Webb. The property was sold to Linkhart and Messinger, who according to all known information, mined about 400 tons of very high grade chrome ore, which drew a premium for the ore ran as high as 51% oxide and an iron ratio of 3.1 to 1. According to information we have, the Tourjour Gai and the Brown Mine, which lies four miles to the west, were the only two mines that were paid a premium for their ore.

Previous to the Likhart and Messinger operation, we understand that about 300 tons of ore was mined and shipped.

Most of the ore was in kidney form and mined at depths not to exceed 30 feet. Later tunnels and drifts were driven in search of more ore. Some small kidneys were found but the main lead, where the kidneys cut off, pitched downward and no further work was done to pick up the ore. Later on an attempt was made to reach the ore but the operation was too expensive for the price of chrome at the time.

The ore pitches toward Patrick Cr. Canyon and just below the Sunshine No. 1 claim. The ore on the Holiday claim, now being operated in the bottom of the canyon below the Sunshine No. 1 and adjoining the Sunshine No. 4, pitches at about the same angle. The main body which we believe exists on the Sunshine No. 1 claim, appears to rise from the bottom of Patrick canyon and just north of the Red Dome Mercury claim, which is shown on map attached to Form MF-103.

(b) The Brown Mine, which lies directly to the west of the Elk Camp property about four miles, has been the best producer in the entire area. Shipped over 200,000 dollars worth of ore during the last war and has already filled his quota, (2000 tons) on the present stockpile contract. The holiday claim, which adjoins Sunshine No. 4 claim, shipped about $70,000 worth of chrome from broken segments of the present vein and expects to ship at least $75,000 worth of chrome this winter running 48-51% oxide, iron ratio 3 to 1.

(c) No reports.

L. J. Harper

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Answer to question No. 12 Form MF-100.

12. Refer to answer for question No. 7. The property consists of 12 claims, but only five are being considered for development at this time.

The ore on the Tourjour Gai pitches downward to the east and appears to be making into veins and chimneys. Diamond drilling has picked up 18" stringers but it is felt the main ore shoot will be found at about the 100 foot level.

The leads on the north side of the Sunshine No. 1 claim and the general formation indicates the large body is at depth, rising from the south and kidneys in the upper 300 foot zone. Sunshine No. 5 appears to lie over the main shoot and we propose to drill to depth on or near the south line of Sunshine No. 1.

The strike of the vein on the Holiday claim, which is owned by Carlson and in operation, enters the south line (end) of the Sunshine No. 4 and appears to continue on into the Sunshine No. 2 claim. This assumption is drawn from the fact the serpentine on the hanging wall side of the Holiday vein carries thru and is exposed in may places, dipping at the same angle.

L. J. Harper

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

Answer to question No. 13 Form MF-100

13. Access Roads:

Refer to map attached to Form MF-103.

Every portion of the Elk Camp property is accessible by dirt roads. The road running along the top of the ridge a distance of four miles out to the county road that leads into Obrien, Ore., is dirt, but we intend to improve it as the mine goes into production. The county road is surfaced with gravel to Obrien. There it enters highway No. 199 into Grants Pass, Ore., where the stockpile is. The distance into Grants Pass from Elk Camp on this route, is 48 miles and eliminates the passes on Highway 199 between Patrick Cr. and Obrien, Ore.

A mountain road 7 miles in length, goes down Patrick Cr. to Highway No. 199 and it is then 28 miles into Crescent City, Calif.

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

E. J. Petersen,

L. J. Harper,
208 Columbia St.,
Seattle, Wash.

Answer to question No. 14. Form MF-100

14. Elk Camp is supplied with water from an adjacent spring which furnishes the requirements of the camp with the exception of late fall during a long dry summer. By careful use at this time, there is no shortage.

An incline tunnel on the Tourjour Gia claim, stores enough water during the winter for all requirements in that area.

A spring near the west end of Sunshine No. 1 claim, produces enough water for drilling purposes there.

The headwarers of Patrick Creek furnish an ample supply of water for all purposes on Sunshine claims Nos. 2 & 4.

ERNEST J. PETERSEN
208 COLUMBIA STREET
SEATTLE 4, WASHINGTON
ELIOT 2622

L. J. Harper,

E. J. Petersen,
208 Columbia St.,
Seattle, Wash.

Answer to question No. 17. Form MF-100

17. The camp consists of four buildings in fair condition. The main building which houses the sleeping quarters, shower, toilets, laundry room and kitchen, is 20' x 60'. The cooking and heating is done with wood. It will be necessary to install propane gas for cooking purposes when the mine is in operation. Fuel and gasoline are delivered to the property from Crescent City, Calif.

Adjacent to the main building, is the wood shed and storage structure which is 16'x30'. The light plant and shop are in a building 12'x16'. Separate cabin for sleeping quarters is 10'x12'. Water tank covered with shed. Fuel storage consists of two 550 Gal. tanks mounted upon platform. All camp facilities in working order and ready for occupancy.

Equipment:
1 Allis Chalmers HD-14 bulldozer in A-1 condition.
1 Chicago Pneumatic diamond drill, mounted on steel skids with steel tower (gas. powered) 300' drill rod, 100' casing, bits and all tools complete. This equip. is new. Capacity up to 900'.
1 High pressure pump, mounted on steel skids and trailer, to furnish water to diamond drill.
1 Large fire pump to supply water for drilling and fires.
2 3000 Gal. water tanks and 1000' of 2½" fire hose.
1 10 KW AC 120-240 light plant.
1 300 Amp GE gas driven Elec. welder mounted on trailer.
1 4 wheel drive 1½ ton heavy duty truck, fully equiped.
1 ½ ton International pick-up truck.
1 Schramm 120 Cu. Ft. compressor, complete.
1 Small sump pump, jack hammers, hose, steel, bits and shop equip.

All of the above equipment is in perfect working order and ready for immediate use.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2331
Metal or Mineral
Date Received 1-18-52
Amount $
Participation (Government %)

Name and address of applicant

L. J. Harper,
3909 N. Winds St., Seattle, Wash.

L. J. Peterson,
3020 31st Ave. W., Seattle, Wash.

Joint owners

Office address:
208 Columbia St.,
Seattle, Wash.

Date January 14, 1952

If you have already filed MF-100, give date filed _____, type of assistance requested _____,

DMA Docket Number (if available) _____

INSTRUCTIONS

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1952

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project including any existing mine or operating property.
   see attached sheet
   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application.
   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

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

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

see 2nd

16—64067-2

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

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

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

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

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

   see map attached

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

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item. none

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

   (*a*) Rented

   (*b*) Purchased see sheet attached

   (*c*) Furnished by you

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

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

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

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

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

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

    none

CERTIFICATION

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

(Name of company)

By L. J. Harper (Signature of authorized official)

L. J. Harper

(Date)

J. J. Peterson (Title)

joint owners of both mines.

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

U. S. GOVERNMENT PRINTING OFFICE 16—64067-2

Application for a loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle, Wash. 6

E. J. Petersen, 3020 31st Ave. W., Seattle 99, Wash.

Answer to question No. 1.

1. (a) The Tour Your Gai claim, which is a part of the Elk Camp Mine group. The Sunshine claims Nos. 1, 2, 4 & 5. All of the above claims are recorded in the Recorder's Office for Del Norte County, California and are situated in T. 18 N. R. 3 E. H.M. Sections 17 and 18, and in the Diamond Creek (unorganized) Mining District.

(b) Owners

(c) Refer to (a) and attached map.

COPY

Application for a loan on chrom property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

2. (a) The deposits on Sunshine No. 1 claim appears to be a large instrusion of solid ore at depth, with an overlying group of kidneys in the center of the dome. The ore appears to rise from the south side of the dome, cropping on the N.E. side, which is in the Diamond Cr. canyon. Several diamond drill holes are necessary to determine the exact location of the ore bodies. A tunnel should be driven into the dome at the 300 foot level on the south side, to reach the kidneys. A shaft adjacent to the tunnel to reach the main body of ore. The croppings on the N. E. side of the dome, are high grade. The serpentine carries 7 lbs of chrome oxide to the ton.

The Sunshine claims Nos. 2 & 4, join end to end and join the side line of the Holiday Mine claim, close to the chrome operation now being conducted. The vein of high grade ore on the Holiday claim, strikes toward the end of Sunshine claim No. 4. The pitch of the serpentine hanging wall, exposed on Sunshine claims Nos. 4 & 2, indicates the possibility of the Holiday vein extending the entire length of these claims. The vein on the Holiday claim is widening as it is being mined toward our end line and is carrying an oxide content of 48 to 51%.

The Tour Your Gai claim, which is part of our property, produced chrome ore of 48 to 51% oxide content and 3 to 1 iron ratio. Approximately 700 tons of ore was mined during the years 1942 to 44 from surface workings and tunnels.

The Gene Brown chrome mine lies about four miles to the west of our property and has produced several thousand tons of high grade ore.

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

3. (a) The proposed work will consist of several diamond drill holes on all four claims and if necessary, shafts or drifts. The total cost of the project will not exceed $52,000.00.

(b) The applicants desire to continue exploratory work by March 1st 1952. (Exploratory work has been conducted for several months) All equipment is on the property and ready to start work. The proposed work will require about nine months to complete. Application is being made at this time for a separate loan on the Red Dome mercury claim, which is a separate property, but owned jointly by the above. The time estimated to complete the work on the chrome claims, is nine months. The mercury exploration will take about four months. Some of the equipment will be used on the mercury property when not in use on the chrome claims. Considering winter weather preventing exploration work, it is thought advisable to request 16 months to complete the work on both properties.

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave., West, Seattle 99, Wash.

5. Camp buildings consist of a bunk house, cook house, laundry room, shower and toilets. Dimensions of building are 60x20'. Wood shed and storage building is 16x30'. Light plant building dimensions 12x16'. Cabin 10x12'. Water tank and shed. Buildings piped with hot and cold water and wired for electricity. General camp facilities for housing 15 men. Fuel storage facilities consist of two 550 gallon tanks mounted on platform.

COPY

Application for loan on chrome property. Form RF-103

L. J. Harper, 3907 N. Minds St., Seattle 6, Wash.

E. J. Peterson, 3020 31st Ave., West, Seattle99, Wash.

7. (a) None

(b) Possibility of larger air compressor needed.

(c) Depreciation

	Mo.	9 Mos.
($8.00 per hr.)		
1 Allis Chalmers HD 14 bulldozer, about 75 hours per mo.	$600.00	$5400.00
1 Chicago Pneumatic surface diamond drill-capacity 900' complete with 300' of drill rod and 100' casing and all necessary drill tools. Drill mounted on skids with tower--all almost new. It is extimated we will drill approximately 600' per month @ $1.00 per foot.	600.00	5400.00
1 High pressure water pump for diamond drill	20.00	180.00
1 Large low pressure water pump to supply water for drill	25.00	225.00
2 3000 Gal. water tanks and 1000' of 2½" water hose	20.00	180.00
1 10 KW 120-240 AC Light Plant	25.00	225.00
1 300 Amp GE gas driven Elec. welder	25.00	225.00
1 4 wheel drive 1½ ton truck with winch	50.00	450.00
1 ½ ton International truck	25.00	225.00
1 Schramm 120 cu. ft. compressor	40.00	360.00
3 Jack hammers	15.00	135.00
Camp and other buildings	100.00	900.00
3 Ore cars, rail and water pipe	10.00	90.00
1 Small sump pump (gas driven)	5.00	45.00
Drill steel, bits and air hose for jack hammers	5.00	45.00
2 Fuel storage tanks (550 Gals. each)	10.00	90.00
	$1580.00	$14220.00

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st W. Seattle 99, Wash.

Answer to question 8.

		Per Mo.	9 Mos.
8.	3 miners @ $12.00 per day for 26 days and 30 days board @ $3.00 per day	$1206.00	$10,854.00
	1 timberman @ $15.00 per day for 26 days and 30 days board @ $3.00 per day	480.00	4,320.00
	1 supervisor @ $17.00 per day for 26 days and 30 days board @ $3.00 per day	532.00	4,788.00
	1 cook @ $200.00 per month and board	290.00	2,610.00
	Bookkeeping, Engineering and accounting @ $100.00 per month	100.00	900.00
		$2608.00	$23,472.00

COPY

Application for loan on chrome property. Form MF-103

L. J. Harper, 3907 W. Hinds St., Seattle 6, Wash.

E. J. Petersen, 3020 31st Ave. W. Seattle,99 Wash.

Answer to question 9.

9. Materials and supplies:

Lumber and timber	$1,500.00
Diamond drill bits	2,500.00
Steel and bits for jack hammers	600.00
Dynamite, caps and fuse	1,500.00
Miners tools, lubricants, spikes	500.00
Deisel fuel @ 17¢ per gal. 5000	850.00
Gasoline @ 19¢ per gal. 5000	950.00
Bulldozer maintenance	1,000.00
Misc. maintenance	500.00
Ins., Social Security tax, unemplyment & etc. estimated at 16% of payroll	3,755.52
	$13,555.52

COPY

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2331

Date received 1-18-52

L. J. Harper,
3907 W. Hinds St., Seattle 6, Wn

E. J. Petersen,
3020 31st Ave. W. Seattle 99, Wn.

Office address:
208 Columbia St.,
Seattle, Wash.

Name and address of applicant

Joint owners

Date Jan. 14, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. 68 miles SW of Grants Pass, Ore.
   (*b*) Mining district. Diamond Cr. (unorganized)
   (*c*) Township, Section, Range. T. 18 N. Secs. 17 & 18 R. 3 E. HM
   (*d*) County, State. Del Norte Co. Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1952

4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.

   Not in operation
5. Number of years in production 2 yrs. 1943-44

   If not in production or operation, estimated date when production will begin March 1, 1952
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.

   see attached sheet
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

   see attached sheet

16—63792-2

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
	None						
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par Value (c)	Number of Shares Outstanding (d)	Dividend Rate Last Paid* (e)
Common stock	$	$	$		
Preferred stock	None $	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)		none	none	none	
3. Quantity and grade of product sold or shipped (specify units of measure)	48-51% oxide chrome		1943	-44 700	tons

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. does not apply

12. Ore or Mineral Reserves:

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

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

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve. does not apply

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows: does not apply

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)		none			

(*c*) If placer: does not apply

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

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

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

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

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

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

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

see attached sheet

14. Water Supply:

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

see attached sheet

15. Power:

State amount of power used, rate per hour, and source thereof. 10 KW AC plant owned. Power line 5 miles to the south.

16. Labor:

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

does not apply

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation. See attached sheet

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

none

CERTIFICATION

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

By L. J. Harper
(Signature of authorized official)

(Name of company)

(Date)

President
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answer to question No. 1 Form MF-100.

1. Materials produced.

   (a) Chrome ore--48 to 51% oxide content--iron ratio 3 to 1.

   (b) All indications point to two possible platinum deposits situated on the south side of Sunshine Claim No. 1 and High Dome claim No. 1. Strong mercury indications in large open cut on High Dome No. 1 claim.

COPY

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 2 Form MF-100

2. The present name of the chrome property is, Elk Camp Mine, originally known and listed in geological report of Bureau of Mines, as the Tourjour Gai. The following claims have been added to this property by staking and recording in Recorder's Office, Del Norte County, Calif.

Blue Jay-Bulldozer-Tangerine-Sunshine Nos. 1, 2, 3, 4 & 5. The High Dome Nos. 1, 2 & 3.

(a) None
(b) 200 ft.
(c) None
(d) 500 ft. of open cuts--some 25 ft. in depth.

Drifts and tunnels open excepting portions of inclines which are flooded during the winter months. No pumping problems.

There are twelve claims in the group. The Tangerine claim produced 700 tons of high grade chrome ore and all of the tunnel and drifts are on this claim. All ore produced in this portion of the property, was in kidney form. An 18" square lead, pitches downward into a vein system and chimneys. Ore should be reached at a depth of 100 feet by shaft. All ore on the Bulldozer, Blue Jay and Tourjour Gai will be found in kidneys. The Sunshine No. 1 claim, is a huge dome and is situated on the ridge dividing Diamond Cr. and Patrick Cr. Two 3" leads are to be found on the north side. The general formation indicates a huge deposit of chrome ore at depth with kidneys overlying the structure. Diamond drill operations were started on the boundary line between Sunshine No. 1 and 5 claims. (Refer to map attached to MF Form 103.)

High Dome claim No. 1, is definitely a dome of kidneys and lies at the head of the vein system emanating from the Holiday claim in the canyon below, which is now in operation. Refer to map attached re Sunshine Nos. 2 & 4, on Form MF-103.

Considering the geological action and known leads on these claims, it is thought the property will produce huge quantities of high grade chrome at depth.

COPY

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 6 Form MF-100

6. Experience of operators.

L. J. Harper worked for Casleton in Alaska for 8 years on a large gold dredge. Handled most phases of the operation. Organized the Harper Brake Service in Seattle and conducted a very successful operation. Spent two years in the chrome area in Del Norte County, Calif. and considerable of this time on the Elk Camp Mine property diamond drilling and other general mining activities.

E. J. Petersen has had over 20 years of mining experience in Montana, Idaho, Washington and California. Familiar with the construction of mills, operation and development of mines. Eight years of this time has been spent in geophysical work and geology. The last three years, when the weather permitted, were spent in studying the chrome situation in Del Norte Co., Calif. Now developing the Dawn gold, nickle and platinum prospect in Del Norte Co.

COPY

L. J. Harper
E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answers to question No. 7 Form MF-100

7. History:

The Elk Camp Mine originally was known as the Tourjour Gai Mine and located by a man named Webb. The property was sold to Linkhart and Messinger, who according to all known information, mined about 400 tons of very high grade chrome ore, which drew a premium for the ore ran as high as 51% oxide and an iron ratio of 3.1 to 1. According to information we have, the Tourjour Gai and the Brown Mine, which lies four miles to the west, were the only two mines that were paid a premium for their ore.

Previous to the Likhart and Messinger operation, we understand that about 300 tons of ore was mined and shipped.

Most of the ore was in kidney form and mined at depths not to exceed 30 feet. Later tunnels and drifts were driven in search of more ore. Some small kidneys were found but the main lead, where the kidneys cut off, pitched downward and no further work was done to pick up the ore. Later on an attempt was made to reach the ore but the operation was too expensive for the price of chrome at the time.

The ore pitches toward Patrick Cr. Canyon and just below the Sunshine No. 1 claim. The ore on the Holiday claim, now being operated in the bottom of the canyon below the Sunshine No. 1 and adjoining the Sunshine No. 4, pitches at about the same angle. The main body which we believe exists on the Sunshine No. 1 claim, appears to rise from the bottom of Patrick canyon and just north of the Red Dome Mercury claim, which is shown on map attached to Form MF-103.

(b) The Brown Mine, which lies directly to the west of the Elk Camp property about four miles, has been the best producer in the entire area. Shipped over 200,000 dollars worth of ore during the last war and has already filled his quota, (2000 tons) on the present stockpile contract. The holiday claim, which adjoins Sunshine No. 4 claim, shipped about $70,000 worth of chrome from broken segments of the present vein and expects to ship at least $75,000 worth of chrome this winter running 48-51% oxide, iron ratio 3 to 1.

(c) No reports.

COPY

L. J. Harper

E. J. Petersen
208 Columbia St.,
Seattle, Wash.

Answer to question No. 12 Form MF-100.

12. Refer to answer for question No. 7. The property consists of 12 claims, but only five are being considered for development at this time.

The ore on the Tourjour Gai pitches downward to the east and appears to be making into veins and chimneys. Diamond drilling has picked up 18" stringers but it is felt the main ore shoot will be found at about the 100 foot level.

The leads on the north side of the Sunshine No. 1 claim and the general formation indicates the large body is at depth, rising from the south and kidneys in the upper 300 foot zone. Sunshine No. 5 appears to lie over the main shoot and we propose to drill to depth on or near the south line of Sunshine No. 1.

The strike of the vein on the Holiday claim, which is owned by Carlson and in operation, enters the south line (end) of the Sunshine No. 4 and appears to continue on into the Sunshine No. 2 claim. This assumption is drawn from the fact the serpentine on the hanging wall side of the Holiday vein carries thru and is exposed in may places, dipping at the same angle.

COPY

L. J. Harper
E. J. Petersen

208 Columbia St.
Seattle, Wash.

Answer to question No. 13 Form MF-100

13. Access Roads:

Refer to map attached to Form MF-103.

Every portion of the Elk Camp property is accessible by dirt roads. The road running along the top of the ridge a distance of four miles out to the county road that leads into Obrien, Ore., is dirt, but we intend to improve it as the mine goes into production. The county road is surfaced with gravel to Obrien. There it enters highway No. 199 into Grants Pass, Ore., where the stockpile is. The distance into Grants Pass from Elk Camp on this route, is 48 miles and eliminates the passes on Highway 199 between Patrick Cr, and Obrien, Ore.

A mountain road 7 miles in length, goes down Patrick Cr. to Highway No. 199 and it is then 28 miles into Crescent City, Calif.

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E. J. Petersen,

L. J. Harper,
208 Columbia St.,
Seattle, Wash.

Answer to question No. 14. Form MF-100

14. Elk Camp is supplied with water from an adjacent spring which furnishes the requirements of the camp with the exception of late fall during a long dry summer. By careful use at this time, there is no shortage.

An incline tunnel on the Tourjour Gia claim, stores enough water during the winter for all requirements in that area.

A spring near the west end of Sunshine No. 1 claim, produces enough water for drilling purposes there.

The headwarers of Patrick Creek furnish an ample supply of water for all purposes on Sunshine claims Nos. 2 & 4.

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L. J. Harper,

E. J. Petersen,
208 Columbia St.,
Seattle, Wash.

Answer to question No. 17. Form MF-100

17. The camp consists of four buildings in fair condition. The main building which houses the sleeping quarters, shower, toilets, laundry room and kitchen, is 20' x 60'. The cooking and heating is done with wood. It will be necessary to install propane gas for cooking purposes when the mine is in operation. Fuel and gasoline are delivered to the property from Crescent City, Calif.

Adjacent to the main building, is the wood shed and storage structure which is 16'x30'. The light plant and shop are in a building 12'x16'. Separate cabin for sleeping quarters is 10'x12'. Water tank covered with shed. Fuel storage consists of two 550 Gal. tanks mounted upon platform. All camp facilities in working order and ready for occupancy.

Equipment:
1 Allis Chalmers HD-14 bulldozer in A-1 condition.
1 Chicago Pneumatic diamond drill, mounted on steel skids with steel tower (gas. powered) 300' drill rod, 100' casing, bits and all tools complete. This equip. is new. Capacity up to 900'.
1 High pressure pump, mounted on steel skids and trailer, to furnish water to diamond drill.
1 Large fire pump to supply water for drilling and fires.
2 3000 Gal. water tanks and 1000' of 2½" fire hose.
1 10 KW AC 120-240 light plant.
1 300 Amp GE gas driven Elec. welder mounted on trailer.
1 4 wheel drive 1½ ton heavy duty truck, fully equiped.
1 ½ ton International pick-up truck.
1 Schramm 120 Cu. Ft. compressor, complete.
1 Small sump pump, jack hammers, hose, steel, bits and shop equip.

All of the above equipment is in perfect working order and ready for immediate use.

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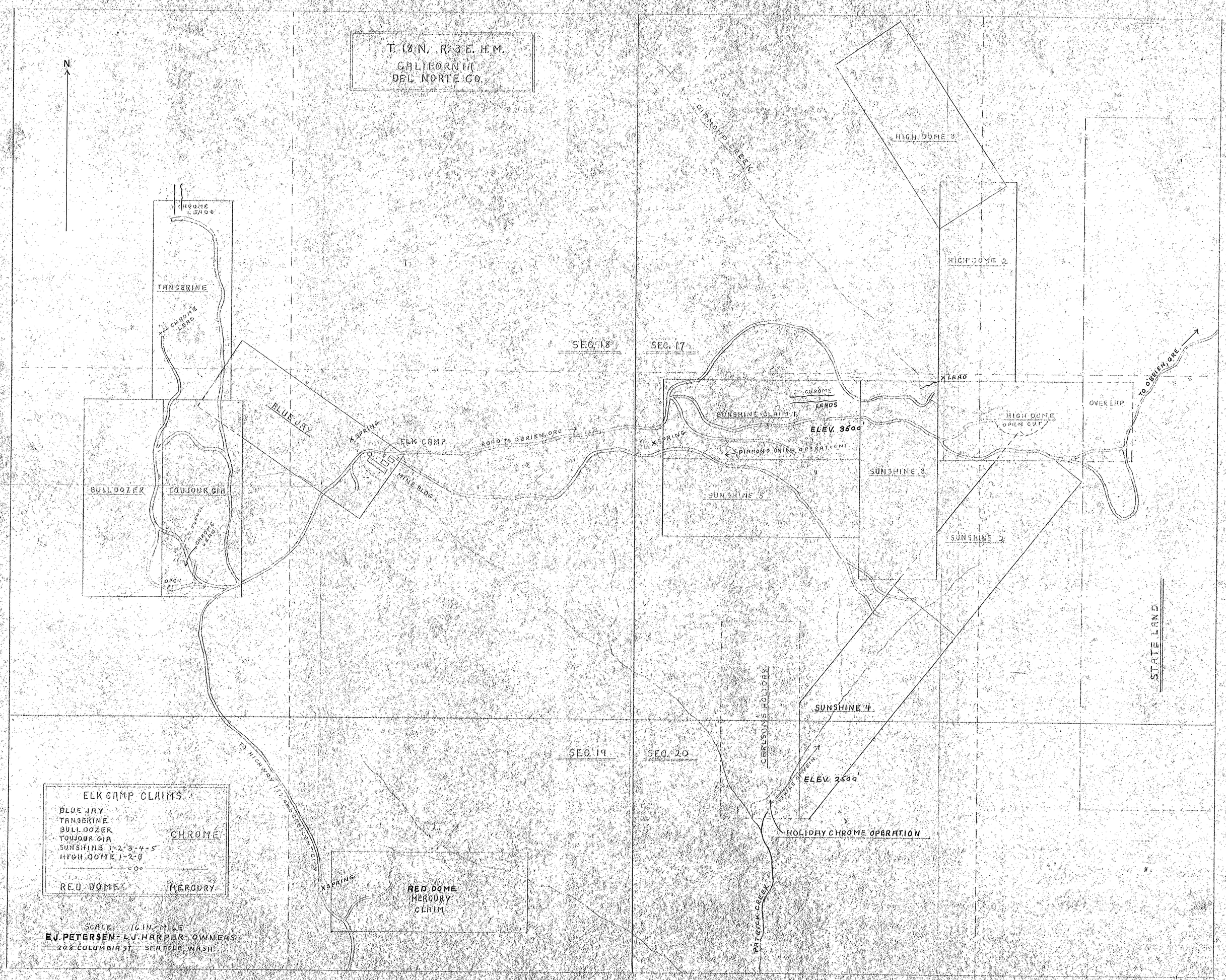

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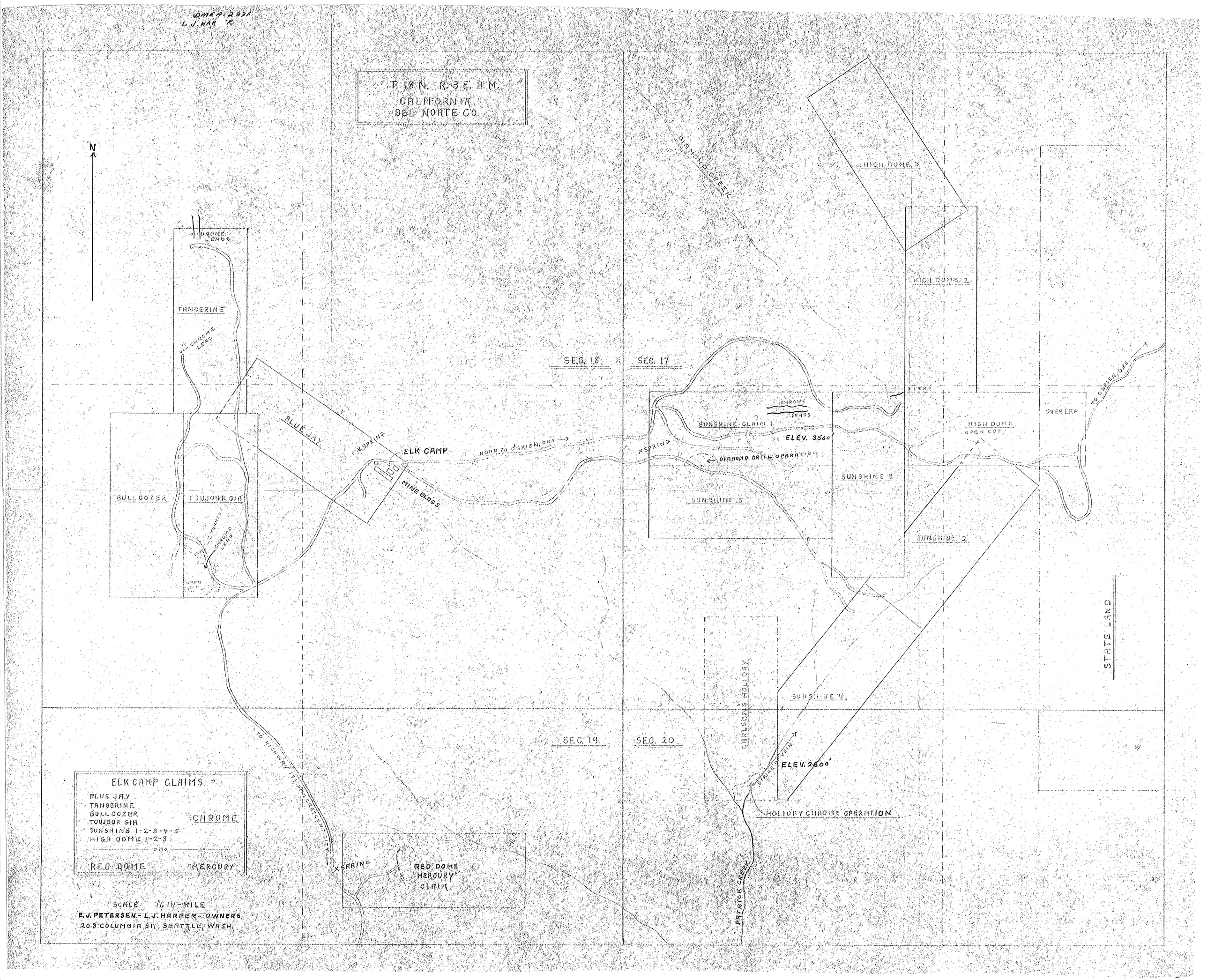
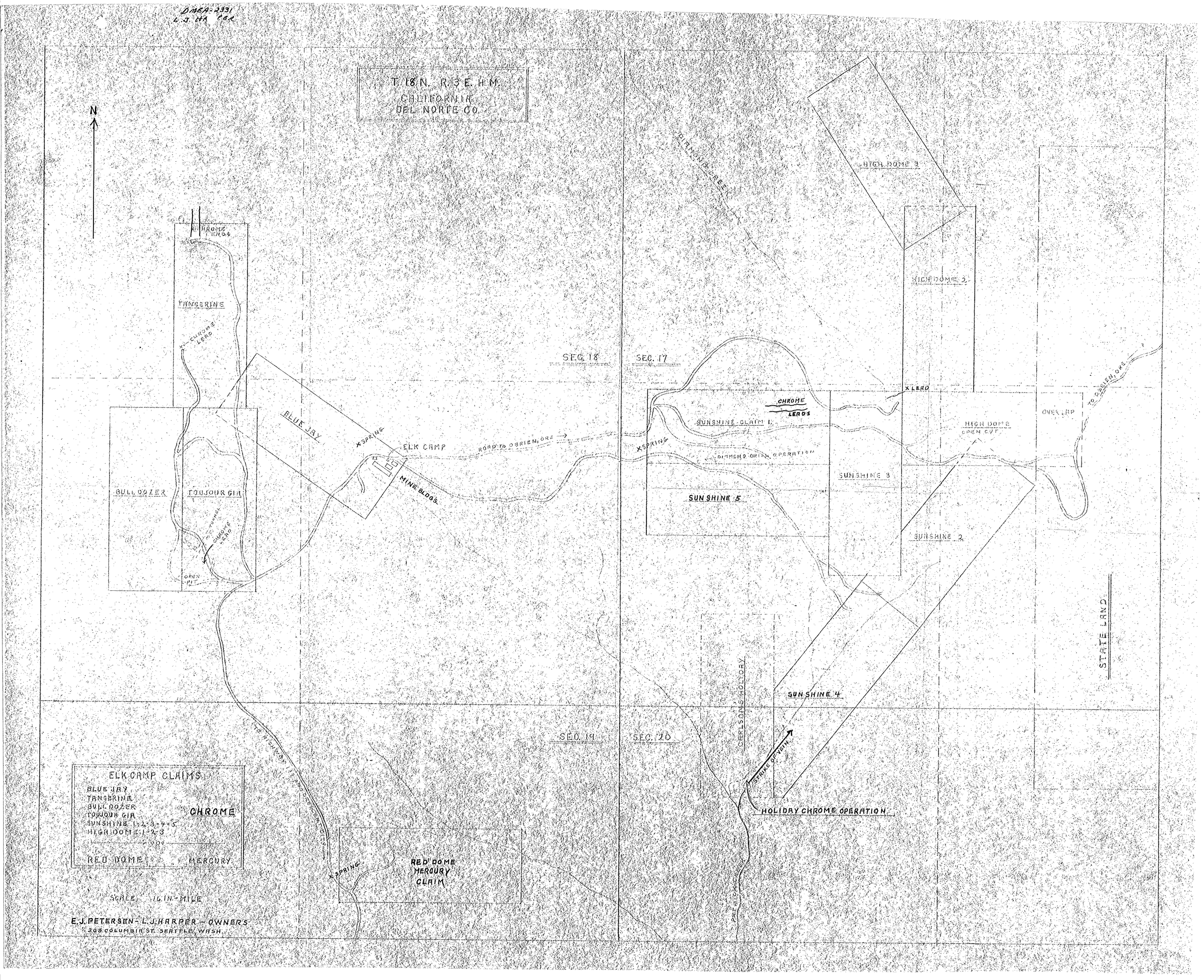
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