DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMEA ~~DMA~~ Docket No. 2511

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EXPLORATION PROJECT

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To:	Code 400, Rm. 3538	Date	5-5-52
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To:	Op Com	Date	8-18-52
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Denied

Acting Administrator, DMEA

August 12, 1952

Iron and Ferro-Alloy Division, DMEA

Denial of exploration project in the amount of $8,500.00
Docket No. DMEA 2511 - Chrome and Manganese
Cachuma Chrome Mining Company
Mr. Harry L. Roberts, Owner
Santa Barbara County, California

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

1. Sandstone, clay, shale, chert and basalt with sill-like masses of serpentine are the basic rocks of the San Rafael Mountains. The chromite occurs as nodules and fine particles within the weathered serpentine rocks. One small area showed a few nodules of manganese bearing rock. The indications are that, geologically, there is little probability of making a significant mineral discovery.

2. During World War II, a shipment of 48 percent Cr_2O_3 was made to the Government stockpile at Phoenix, Arizona. About 15 tons of ore in a stockpile on the property have been sorted from the several prospects.

3. The Field Team of Region III recommends denial of the application. The Commodity Division of the U. S. Geological Survey concurs in this recommendation.

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

TLChapman:lm
8/12/52

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

AUG 19 1952

Mr. Harry L. Roberts
Cachuma Chrome Mining Co.
2245 Vine Street
Paso Robles, California

Re: Docket No. DMSA 2511 - Chrome and Manganese
Cachuma Chrome Mining Company
Santa Barbara County, California

Dear Mr. Roberts:

Your application for exploration assistance and other data concerning the subject area available to us in Washington have been carefully reviewed.

This information, while noting some small scattered occurrences of chrome and manganese ore on your property, 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 bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf

Acting Administrator

TLChapman:lm
8/12/52

cc: Admn. Reading File
Docket
H. B. Melcher, USBM
M. D. Grittenden, USGS
Field Team Reg. XII
Operating Committee
W. D. Selfridge
T. L. Chapman

IN REPLY REFER TO:

G-MD-CF

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

400

August 7, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report DMEA 2511 - Cr, Ma
Cachuma Chrome Mining Co.
Santa Barbara County, California
(Harry L. Roberts)

This property was examined May 30-31, 1952 by John D. Warne, Mining Engineer, Bureau of Mines. His report, dated July 17, recommends denial of the application.

I concur with this recommendation.

DMLemmon:gt

400

MAY 19 1952

Mr. Harry L. Roberts
2245 Vine Street
Paso Robles, California

Re: Docket No. DMEA 2511X - Chrome and Manganese
Mesa Chrome, Chicken Springs (Cr) and Black Rock (Mn) Prospects
Santa Barbara County, California

Dear Mr. Roberts:

Your application for assistance in exploring the Mesa Chrome and Chicken Springs chromite prospects and the Black Rock manganese prospect in Santa Barbara County, California, Docket No. DMEA 2511X, has been reviewed by the Iron and Ferro-Alloy Division of the Defense Minerals Exploration Administration and has been referred to Mr. T. G. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

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

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration Administration

TLChapman:lm
5/8/52

cc: Admn. Reading File
Docket
N. B. Melcher, USBM
H. T. Crittenden, USGS
Field Team Reg. III
G. G. Selfridge
T. L. Chapman

G-MD-DML IN REPLY REFER TO:

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

May 7, 1952

400

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $8,500 DMEA 2511 - Cr and Mn
Harry L. Roberts
2245 Vine Street
Paso Robles, California

Property: Mesa Chrome and Chicken Springs chromite prospects and Black Rock manganese prospect,
Section 15, T. 7 N., R. 29 W.,
10 miles NE from Los Olivos
Santa Barbara County, California

Proposal: It is proposed to dig bulldozer trenches across the "ore-bearing ledges" on 5 mining claims and to sample the ores exposed. Roads will be built as needed.

Comment: The Geological Survey has no detailed information about manganese or chromite on these claims. It is known that chromite float was visible over a large area in 1918 but none was seen in outcrops. Past production from the county is insignificant.

The applicant states that one carload of "metallurgic grade" chromite was shipped to a government Ore Purchase Depot at Phoenix, Arizona in 1942. This shipment was apparently financed by an R.F.C. production loan. The Geological Survey has no record of this shipment or its metal content.

The possibility of finding commercial manganese ore at this locality is poor. It appears that pods of chromite might be uncovered, of unknown grade, by careful tracing of float. The applicant's proposal is not sufficiently detailed to show any objectives, and the proposed cost is considerably more than would be repaid by royalty on any expectable discovery.

Copy retained 400

Recommendation:

It is recommended that this application be referred to the Field Team for field investigation, or for comment if sufficient information is already available in the regional office without field examination.

D. M. Lemmon

FILE COPY 400
SURNAME:

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

Chapman
Selfridge
Johnson
Lemmon
Selfridge

AUG 19 1952

Mr. Emery L. Roberts
Goolsmm Chrome Mining Co.
2245 Vine Street
Paso Robles, California

BP

Re: Docket No. DMEA 2511 - Chrome and Manganese
Goolsmm Chrome Mining Company
Santa Barbara County, California

Dear Mr. Roberts:

Your application for exploration assistance and other data concerning the subject area available to us in Washington have been carefully reviewed.

This information, while noting some small scattered occurrences of chrome and manganese ore on your property, 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 bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf (for) P.N. 8.19.52

Acting Administrator

TLChapman'lm
8/12/52

cc: Admn. Reading File
Docket
N. B. Melcher, USBM
M. D. Crittenden, 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: August 12, 1952

FROM : Iron and Ferro-Alloy Division, DMEA

SUBJECT: Denial of exploration project in the amount of $8,500.00
Docket No. DMEA 2511 - Chrome and Manganese
Cachuma Chrome Mining Company
Mr. Harry L. Roberts, Owner
Santa Barbara County, California

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

1. Sandstone, clay, shale, chert and basalt with sill-like masses of serpentine are the basic rocks of the San Rafael Mountains. The chromite occurs as nodules and fine particles within the weathered serpentine rocks. One small area showed a few nodules of manganese bearing rock. The indications are that, geologically, there is little probability of making a significant mineral discovery.

2. During World War II, a shipment of 48 percent Cr_2O_3 was made to the Government stockpile at Phoenix, Arizona. About 15 tons of ore in a stockpile on the property have been sorted from the several prospects.

3. The Field Team of Region III recommends denial of the application. The Commodity Division of the U. S. Geological Survey concurs in this recommendation.

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

August 12, 1952

Chapman
Selfridge
Lehmann

Iron and Ferro-Alloy Division, DMEA

Denial of exploration project in the amount of $8,500.00
Docket No. DMEA 2511 - Chrome and Manganese
Cachuma Chrome Mining Company
Mr. Harry L. Roberts, Owner
Santa Barbara County, California

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3. The Field Team of Region III recommends denial of the application. The Commodity Division of the U. S. Geological Survey concurs in this recommendation.

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

TLChapman'lm
8/12/52

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

IN REPLY REFER TO:

G-MD-CF

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

August 7, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report DMEA 2511 - Cr, Mn
Cachuma Chrome Mining Co.
Santa Barbara County, California
(Harry L. Roberts)

This property was examined May 30-31, 1952 by John D. Warne, Mining Engineer, Bureau of Mines. His report, dated July 17, recommends denial of the application.

I concur with this recommendation.

DM Lemmon

Copy retained 400

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

224 New Customhouse
Denver 2, Colorado

August 7, 1952

Memorandum

To: Administrator, Defense Minerals Exploration Administration Attention: 210

From: Field Team, Region IV

Subject: Final Report, DMA Docket 2099 (Manganese), Torpedo-Mine, Ouray County, Colorado

Attached are four copies of the report on DMA-2099, which should have been included with our letter of transmittal dated October 25, 1951.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

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.

July 29, 1952

DEPARTMENT OF THE INTERIOR
Office of Defense Minerals Administration
Region III
San Francisco
AUG 4 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2511 (Chrome-Manganese), Cachuma Chrome Mining Co., Santa Barbara County, California, Harry L. Roberts, $8,500.00

Reference is made to your subject "Review of Application for Exploration Assistance," dated May 19, 1952, requesting additional information on the Roberts chrome-manganese property and a general examination of the property for possibilities of making a significant discovery.

Attached are four copies of a report - DMEA-2511, Cachuma Chrome Mining Co., Santa Barbara County, Calif. by John D. Warne, Mining Engineer, U. S. Bureau of Mines, dated July 17, 1952.

According to the examining engineer, mine workings consist of a few shallow open cuts excavated with a bulldozer and by hand in serpentine rocks of the Franciscan formation. Both the chromite and manganese-bearing materials occur as nodules and float in weathered serpentine and clay.

The applicant proposes to explore the ore bearing zones with bulldozer cuts; and to construct roads to the exploration sites, however, no definite plan of work has been outlined.

An insufficient quantity or grade of ore is available to warrant Government participation in the proposed exploration project.

The docket is being returned herewith.

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

Attachments
Copy to E. H. Bailey, USGS

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2511, Cachuma Chrome Mining Co.

Santa Barbara County, Calif.

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

July 17, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
AUG 4 1952

Reviewed by
DMEA OPERATING COMMITTEE

8-8-52
(date)

DMEA-2511, Cachuma Chrome Mining Co.

Santa Barbara County, Calif.

SUMMARY AND INTRODUCTION

An engineer of the Bureau of Mines examined the Cachuma Chrome Mining Co. property on May 30 and 31, 1952 in connection with an application for exploration assistance, docket DMEA-2511, to the amount of $8,500.

The first chromite ore was mined from the Cachuma mountain area during World War II. A single shipment of metallurgical grade chrome ore was made to the Government stockpile at Phoenix, Arizona in 1942; however, no records of the quantity or grade of past production from the area are available. About 15 tons of chrome ore of 47.9% Cr_2O_3 and 12.8% Fe content has been recently hand sorted from various prospects in the area. No manganese has previously been produced from the area.

The Cachuma Mining Co. property consists of five unpatented claims in sec. 15, T. 7 N., R. 29 W., S.B. within the Los Padres National Forest, in Santa Barbara County, California. Harry L. Roberts owns the claims and the company is operated as a partnership.

Mine workings consist of a few shallow open cuts excavated with bulldozer and by hand in serpentine rocks of the Franciscan formation. Both the chromite and manganese-bearing materials occur as nodules and float in weathered serpentine and clay.

Four samples were taken from shallow prospects and of chrome ore stockpiled on the property; and one sample of manganese bearing material was taken.

The applicant proposes to explore the ore bearing zones with bulldozer cuts; and to construct roads to the exploration sites; however, no definite plan of work has been outlined.

An insufficient quantity or grade of ore is available to warrant Government participation in the proposed exploration project.

HISTORY AND PRODUCTION

The first chromite was mined from the Cachuma area during World War II. Mr. Harry L. Roberts (the applicant) and Shafter Howard made a shipment of metallurgical grade chrome ore to a Government stockpile at Phoenix, Ariz. during 1942, however, no records are now available of the grade and quantity of this shipment. This production came from his claims in sec. 15, T. 7 N., R. 29 W., S. B., in the vicinity of De la Guerra Spring, an old landmark in the area. About 15 tons of chrome ore of near metallurgical grade has been recently mined and stockpiled on the property.

Mr. Roberts states that several car loads of metallurgical grade chrome ore have been shipped from the Fred Ontivero property, located in sec. 3, T. 7 N., R. 29 W., about two miles north of his property.

Mercury ores were formerly mined at the Redrock Quicksilver mine, two miles north of the Cachuma Mining Co. property. Mr. Henry M. Roberts, father of the applicant, is said to have mined copper ore in the area as early as 1930.

PROPERTY AND OWNERSHIP

The Cachuma Mining Co. property consists of five unpatented claims: Chicken Springs No. 1, Chicken Springs Extension, Black Rock, Mesa No. 1,

and Mesa No. 2. These claims are in sec. 15, T. 7 N., R. 29 W., S.B.M., Santa Barbara County, Calif. The company consists of a partnership of Harry L. Roberts, Bill McKean, and Frank Macham, who work the property only on a part-time basis. The claims are recorded in the name of Harry L. Roberts.

LOCATION AND PHYSICAL FEATURES

The Cachuma Chrome Mining Co. property is situated in the foothills of the San Rafael Mountains, in Santa Barbara County, Calif. The unpatented mining claims are located in sec. 15, T. 7 N., R. 29 W., S.B.M., about 12 miles northeast of the town of Los Olivas within the boundary of the Los Padres National Forest (fig. 1).

The property is accessible via 14 miles of improved gravel road leading northeast from a point on California State Highway No. 150 five miles south of Los Olivas. This road follows Happy Canyon to the Cachuma Mountain area.

Altitudes at the property range from 2000 feet to about 2700 feet above sea level.

MINE WORKINGS AND EQUIPMENT

Mine workings consist of several shallow open cuts, excavated by hand and with a bulldozer, on each of the claims. An 80-foot shaft was formerly sunk on the Mesa No. 1 claim, and two short adits were driven on the Chicken Springs Extension claim; however, these workings have been caved or covered by later surface work, and no evidence remains as to their locations.

Equipment and facilities consist of the following items:

1 No. 60 Cletrac angle dozer equipped with 10-foot blade
1 Four-wheel drive Dodge truck
3 Cabins, located on the Chicken Springs claim

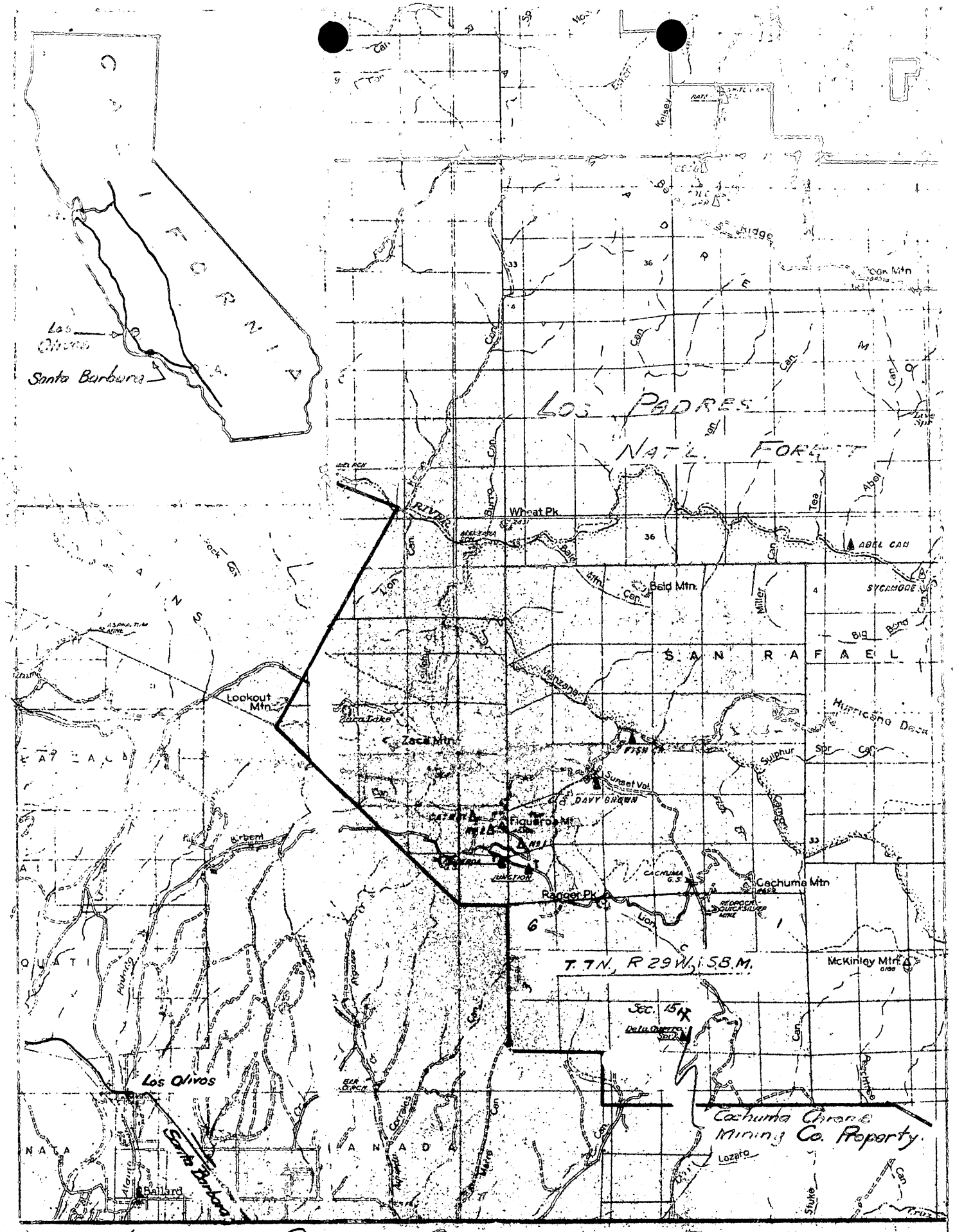

Fig. 1 LOCATION CACHUMA CHROME MINING CO. PROPERTY
SANTA BARBARA CO., CALIFORNIA

DESCRIPTION OF THE DEPOSIT

The Franciscan formation predominates in the San Rafael Mountains where these prospects are situated. "The Franciscan is composed of four types, sandstone, clay, shale, varicolored chert, and basalt ..... it is cut by numerous sill-like masses of serpentine. This was intruded as an ultra-basic rock such as peridotite or pyroxenite, then altered to serpentine by hydrothermal action."1/

The chromite occurs as nodules and fine particles within the weathered serpentine rocks, and no large bodies or outcrops of ore are exposed on the Cachuma Chrome Mining Co. claims.

One exposure containing a few nodules of manganese bearing rock was examined and sampled on the Black Rock claim.

SAMPLING

Four samples were taken from open cuts on the Cachuma Chrome Mining Co. property, which were dug for chrome ore; and one specimen sample of manganese bearing material was taken for analyses2/. The analyses of the samples are as follows:

Sample No.	%, Cr_2O_3	%, Fe	Description
1	0.5	6.2	Grab sample of arkose bearing material from open cut east end of Chicken Springs No. 1 claim.
2	47.9	12.8	Stockpile of sorted ore from Cachuma Mining Co. claims and other properties.
3	4.6	6.7	Channel cut of weathered material, from a 10-foot open cut, west end Chicken Springs No. 1 claim.
4	1.6	7.7	Grab sample from a 200-foot bulldozer cut, Mesa No. 1 claim.

5 Specimen sample of Mn bearing nodules, Black Rock claim: 22.0% Mn, 0.035% P, 57.88% SiO_2).

1/ Geology of Southwestern Santa Barbara County, California, California Division of Mines, Bull. 150, p. 21.

2/ Hydrometallurgical and Ore Dressing Branch, Reno, Nev.

DISCUSSION

The applicant's proposed exploration project consists of cross-cutting the ore bearing zones with a bulldozer to obtain samples for assaying purposes. And, he proposes to construct roads as needed to the sites to be explored. No definite plan has been made as to the location of the bulldozer cuts; the roads to be constructed have not been chosen.

The prospecting work done to date has been widely scattered at various points on the property and has been insufficient to plan a definite program. Most of the chromite occurs as float and nodules in the clay on the claims where exploration work is proposed.

The mining and prospecting work is only done on a part time or "week end" basis by the partners. Mr. Roberts has done some mining at intermittent intervals since 1942 and his partners have had no previous mining experience.

The area is extremely steep and it is covered with heavy overburden. Considerable road building and deep excavations would be required to explore the zones where some chromite occurs.

The showing of manganese on the Black Rock claim consists merely of a shallow cut along a stream bank where a few nodules and float manganese bearing rocks can be found. Insufficient prospecting work has been done to expose an outcrop of this material in place. The small amount of manganese bearing material observed was highly siliceous, unlike an ore type variety.

Some of the chromite ore which has been stockpiled on the property may have been mined from adjacent areas where chromite has been found.

The examining engineer visited an open cut pit, believed to be located in sec. 29, T. 8 N., R. 29 W., which had two thin lenses of chromite averaging about six inches in width and about 5 to 10 feet in length. Ownership of this property is not known and an exploration loan has not been applied for by the Cachuma Mining Co. on this property, however, the partners have done some work in the pit and in the immediate vicinity.

Mr. Roberts promised to supply the examining engineer with data regarding the recording of his claims, production records, and other information which was not available at the time of the examination; however, this information has not been received to date.

CONCLUSIONS AND RECOMMENDATIONS

1. Examination and sampling of the chromite and manganese deposits on the Cachuma Chrome Mining Co. property indicate that the exposed concentrations of ore are of insufficient quantity and grade to mine at a profit.

2. Participation by the Government in further exploration of the deposits is not recommended.

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.

July 29, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Chrome

Subject: Docket DMEA 2511 (Chrome-Manganese), Cachuma Chrome Mining Co., Santa Barbara County, California, Harry L. Roberts, $8,500.00

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The docket is being returned herewith.

H. C. MILLER

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

Attachments
Copy to E. H. Bailey, USGS

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMRA-2511, Cachuma Chrome Mining Co.

Santa Barbara County, Calif.

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

July 17, 1952

DMEA-2511, Cachuma Chrome Mining Co.

Santa Barbara County, Calif.

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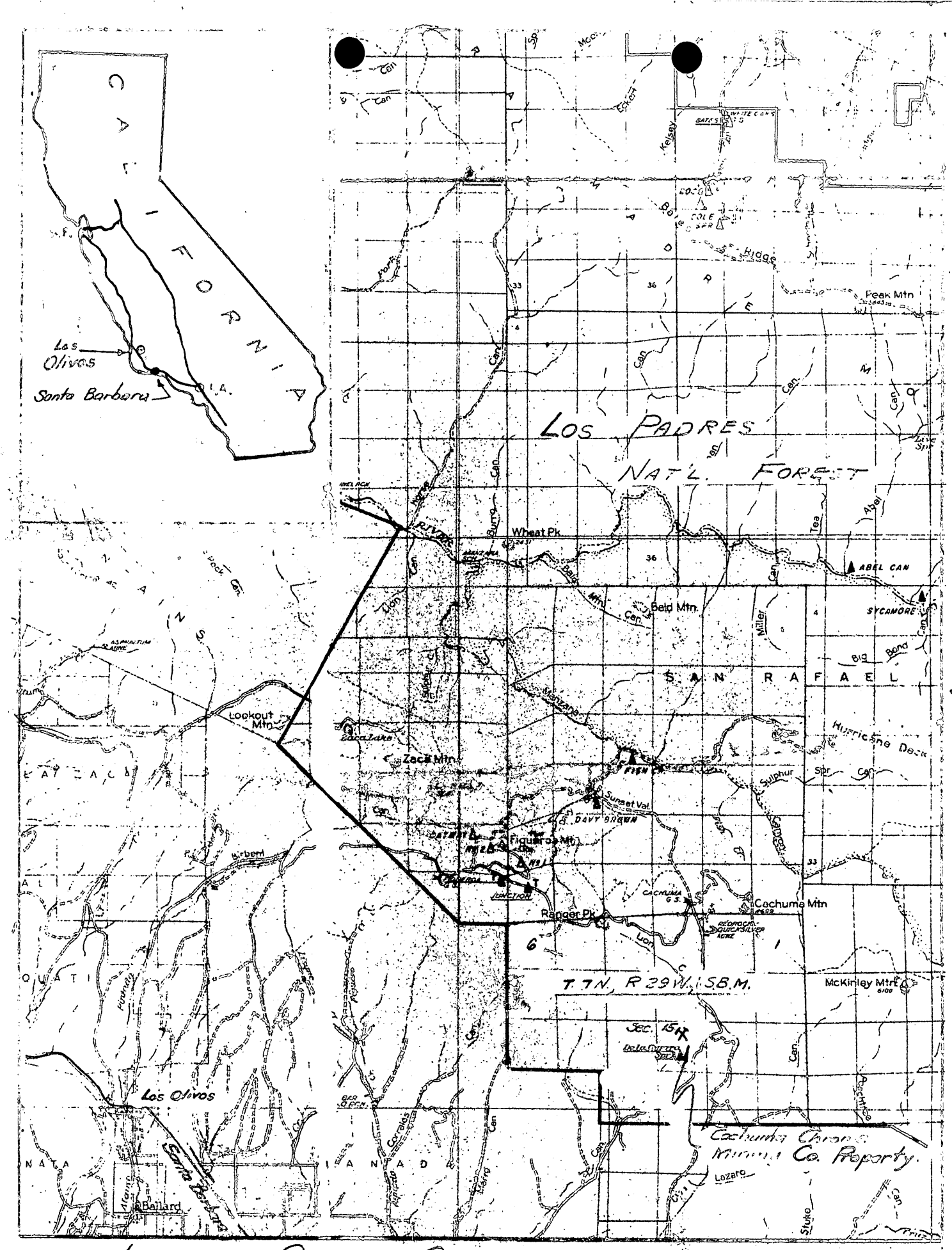

Fig. 1 LOCATION CACHUMA CHROME MINING CO. PROPERTY
SANTA BARBARA CO. CALIFORNIA

DESCRIPTION OF THE DEPOSIT

The Franciscan formation predominates in the San Rafael Mountains where these prospects are situated. "The Franciscan is composed of four types, sandstone, clay, shale, varicolored chert, and basalt ..... it is cut by numerous sill-like masses of serpentine. This was intruded as an ultra-basic rock such as peridotite or pyroxenite, then altered to serpentine by hydrothermal action."1/

The chromite occurs as nodules and fine particles within the weathered serpentine rocks, and no large bodies or outcrops of ore are exposed on the Cachuma Chrome Mining Co. claims.

One exposure containing a few nodules of manganese bearing rock was examined and sampled on the Black Rock claim.

SAMPLING

Four samples were taken from open cuts on the Cachuma Chrome Mining Co. property, which were dug for chrome ore; and one specimen sample of manganese bearing material was taken for analyses2/. The analyses of the samples are as follows:

Sample No.	%, Cr_2O_3	%, Fe	Description
1	0.5	6.2	Grab sample of arkose bearing material from open cut east end of Chicken Springs No. 1 claim.
2	47.8	12.8	Stockpile of sorted ore from Cachuma Mining Co. claims and other properties.
3	4.6	6.7	Channel cut of weathered material, from a 10-foot open cut, west end Chicken Springs No. 1 claim.
4	1.6	7.7	Grab sample from a 200-foot bulldozer cut, Mesa No. 1 claim.

5 Specimen sample of Mn bearing nodules, Black Rock claim: 22.0% Mn, 0.055% P, 37.88% SiO_2).

1/ Geology of Southwestern Santa Barbara County, California, California Division of Mines, Bull. 150, p. 21.
2/ Hydrometallurgical and Ore Dressing Branch, Reno, Nev.

DISCUSSION

The applicant's proposed exploration project consists of cross-cutting the ore bearing zones with a bulldozer to obtain samples for assaying purposes. And, he proposes to construct roads as needed to the sites to be explored. No definite plan has been made as to the location of the bulldozer cuts; the roads to be constructed have not been chosen.

The prospecting work done to date has been widely scattered at various points on the property and has been insufficient to plan a definite program. Most of the chromite occurs as float and nodules in the clay on the claims where exploration work is proposed.

The mining and prospecting work is only done on a part time or "week end" basis by the partners. Mr. Roberts has done some mining at intermittent intervals since 1942 and his partners have had no previous mining experience.

The area is extremely steep and it is covered with heavy overburden. Considerable road building and deep excavations would be required to explore the zones where some chromite occurs.

The showing of manganese on the Black Rock claim consists merely of a shallow cut along a stream bank where a few nodules and float manganese bearing rocks can be found. Insufficient prospecting work has been done to expose an outcrop of this material in place. The small amount of manganese bearing material observed was highly siliceous, unlike an ore type variety.

Some of the chromite ore which has been stockpiled on the property may have been mined from adjacent areas where chromite has been found.

MF-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 8-5-52

REFERRED TO:

1. CODE 400-RM. 3538
2.
3.
4.

FOR:

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

Denny
Tom

REMARKS: .....

Check (X) before the items needing attention.

Adams Clark
Initials of sender

GPO 16—63815-1

The examining engineer visited an open cut pit, believed to be located in sec. 29, T. 8 N., R. 29 E., which had two thin lenses of chromite averaging about six inches in width and about 5 to 10 feet in length. Ownership of this property is not known and an exploration loan has not been applied for by the Cachuma Mining Co. on this property, however, the partners have done some work in the pit and in the immediate vicinity.

Mr. Roberts promised to supply the examining engineer with data regarding the recording of his claims, production records, and other information which was not available at the time of the examination; however, this information has not been received to date.

CONCLUSIONS AND RECOMMENDATIONS

1. Examination and sampling of the chromite and manganese deposits on the Cachuma Chrome Mining Co. property indicate that the exposed concentrations of ore are of insufficient quantity and grade to mine at a profit.

2. Participation by the Government in further exploration of the deposits is not recommended.

FILE COPY
SURNAME:

Chapman
Selfridge
Mullen
Hedges
Lemon
Fitzwater

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

MAY 19 1952

Mr. Harry L. Roberts
2245 Vine Street
Paso Robles, California

Re: Docket No. DMEA 2511X - Chrome and Manganese
Mesa Chrome, Chicken Springs (Cr) and Black Rock (Mn) Prospects
Santa Barbara County, California

Dear Mr. Roberts:

Your application for assistance in exploring the Mesa Chrome and Chicken Springs chromite prospects and the Black Rock manganese prospect in Santa Barbara County, California, Docket No. DMEA 2511X, 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 assistance that you can render the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (fm)

Acting Administrator
Defense Minerals Exploration Administration

TLChapman'lm
5/8/52

cc: Admn. Reading File
Docket
N. B. Melcher, USBM
M. D. Crittenden, USGS
Field Team Reg. III
G. C. Selfridge
T. L. Chapman

F.T. apt 4/1
Spoon rescheduled

Field Team

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

Selfridge
Chapman
Mulcher

MAY 19 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 Harry L. Roberts

Docket No. DMEA 2511

Commodity Chrome, manganese

Amount $ 8,500.00

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:

A. H. Hedges
Member, Bureau of Mines

D. M. Lemmon
Member, Geological Survey

13759

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1982 MAY 20 PM 1:55

SAN FRANCISCO, CALIFORNIA

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMEA 2511

Commodity Chrome, Manganese

Total Amount $8,500.00

Govt. Participation $5,312.50 - 62½%

1. Name and Address of Applicant Harry L. Roberts
2245 Vine Street
Paso Robles, California

2. Location of Property Cachuma Mining District

Section 15; T. 7 N.; R. 29 W.

Santa Barbara County, California

3. Mineral or metal Chrome, manganese. 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

c) None

d) Don't know—needs field examination Yes

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? ----

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**

e) Power (question 13)* **Yes**

Is a field check needed on any of these points? **No**

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* **Yes**

_____

Is a field check needed on this point? **Should be checked**

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

a) Is the project adequately described? **No**

If not, are there sufficient data given so that you can describe the project? _____ 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? **Yes**

d) Are the cost estimates detailed? **Partially**

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? **Yes** If so, attach a draft.

e) Are the cost estimates reasonable? **Appear to be high**

f) Should more information be requested from applicant? _____

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

11. Exhibit B (question 23-d)*

a) Is it applicable? **Yes**

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

c) Is a field check needed? _____

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

a) Is it applicable? _____

b) Sufficient data? _____ If so, attach a draft.

c) Are rents and charges reasonable? _____

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? **Yes**

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

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

e) Is a field check needed? **Should be checked**

14. Exhibit E (question 23-c)*

a) Is it applicable? **Yes**

b) Sufficient data? **Yes**

c) Reasonable? **Yes**

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? **Yes**

(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? **Obtain claim names, date recorded, book and page number. Property needs general examination for possibilities of making significant discovery.**

TLChapman:lm
5/8/52

Reviewed by: **T. L. Chapman**

Enclosures:

USGS Recommendation by Lemmon

Date **May 8, 1952**

Field Team

Selfridge
Chapman
Nelson

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

MAY 19 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 Harry L. Roberts

Docket No. DMEA 2511

Commodity Chrome, manganese

Amount $ 8,500.00

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

D. M. Lemmon

Member, Geological Survey

13759

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMEA 2511

Commodity Chrome, Manganese

Total Amount $8,500.00

Govt. Participation $5,312.50 - 62½%

1. Name and Address of Applicant Harry L. Roberts
2245 Vine Street
Paso Robles, California

2. Location of Property Cachuma Mining District
Section 15; T. 7 N.; R. 29 W.
Santa Barbara County, California

3. Mineral or metal Chrome, manganese 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

c) None

d) Don't know—needs field examination Yes

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? ---

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**

   e) Power (question 13)* **Yes**

   Is a field check needed on any of these points? **No**

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* **Yes**

   _____

   Is a field check needed on this point? **Should be checked**

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

   a) Is the project adequately described? **No**

      If not, are there sufficient data given so that you can describe the project? _____ 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? Yes

d) Are the cost estimates detailed? Partially

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? Yes If so, attach a draft.

e) Are the cost estimates reasonable? Appear to be high

f) Should more information be requested from applicant? _____

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

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

c) Is a field check needed? _____

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

a) Is it applicable? _____

b) Sufficient data? _____ If so, attach a draft.

c) Are rents and charges reasonable? _____

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? Yes

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

d) Are the proposed wages and salaries reasonable? Yes

e) Is a field check needed? Should be checked

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes

b) Sufficient data? Yes

c) Reasonable? Yes

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? Yes

(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? Obtain claim names, date recorded, book and page number. Property needs general examination for possibilities of making significant discovery.

TLChapman'lm
5/8/52

Reviewed by: T. L. Chapman

Enclosures:

USGS Recommendation by Lemmon

Date May 8, 1952

Docket File

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

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

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Applicant Harry L. Roberts

Docket No. DMEA 2511

Commodity Chrome, manganese

Amount $ 8,500.00

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:

W. H. Hedges

Member, Bureau of Mines

D. M. Lemmon

Member, Geological Survey

13759

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. 2511

Commodity Chrome, Manganese

Total Amount $8,500.00

Govt. Participation $5312.50 62½%

1. Name and Address of Applicant Harry L. Roberts
2245 Vine Street. Paso Robles, Calif.

2. Location of Property Cachuma Mining District,
Section 15, T. 7 N. R. 29 W. Santa Barbara
County, Calif.

3. Mineral or metal Chrome, Manganese 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

c) None

d) Don't know—needs field examination Yes.

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?

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.

e) Power (question 13)* Yes.

Is a field check needed on any of these points? No.

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Yes.

Is a field check needed on this point? Should be checked.

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

a) Is the project adequately described? No.

If not, are there sufficient data given so that you can describe the project? _____ 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? Yes.

d) Are the cost estimates detailed? Partially.

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? Yes. If so, attach a draft.

e) Are the cost estimates reasonable? Appear to be high.

f) Should more information be requested from applicant? _____

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes.

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

c) Is a field check needed? _____

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

a) Is it applicable? _____

b) Sufficient data? _____ If so, attach a draft.

c) Are rents and charges reasonable? _____

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? Yes.

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

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

e) Is a field check needed? Should be checked

14. Exhibit E (question 23-c)*

a) Is it applicable? Yes.

b) Sufficient data? Yes.

c) Reasonable? Yes.

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? Yes.

(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? Obtain claim names, date recorded, Book and Page.
Property needs general examination for possibilities of making significant discovery

Reviewed by: D. L. Chapman

Date 5/8/52

Sent B/M on 5/5. No report yet from B/M.

This docket is on your desk, I believe.

Fred Tarr.

G-MD-DML

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

May 7, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $8,500 DMEA 2511 - Cr and Mn
Harry L. Roberts
2245 Vine Street
Paso Robles, California

Property: Mesa Chrome and Chicken Springs chromite prospects and Black Rock manganese prospect,
Section 15, T. 7 N., R. 29 W.,
10 miles NE from Los Olivos
Santa Barbara County, California

Proposal: It is proposed to dig bulldozer trenches across the "ore-bearing ledges" on 5 mining claims and to sample the ores exposed. Roads will be built as needed.

Comment: The Geological Survey has no detailed information about manganese or chromite on these claims. It is known that chromite float was visible over a large area in 1918 but none was seen in outcrops. Past production from the county is insignificant.

The applicant states that one carload of "metallurgic grade" chromite was shipped to a government Ore Purchase Depot at Phoenix, Arizona in 1942. This shipment was apparently financed by an R.F.C. production loan. The Geological Survey has no record of this shipment or its metal content.

The possibility of finding commercial manganese ore at this locality is poor. It appears that pods of chromite might be uncovered, of unknown grade, by careful tracing of float. The applicant's proposal is not sufficiently detailed to show any objectives, and the proposed cost is considerably more than would be repaid by royalty on any expectable discovery.

Copy retained 400

Recommendation:

It is recommended that this application be referred to the Field Team for field investigation, or for comment if sufficient information is already available in the regional office without field examination.

D. M. Lemmon

G-MD-DML REFER TO:

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

May 7, 1952

Memorandum

To: George C. Selfridge, DMEA

From: D. M. Lemmon, USGS

Subject: Exploration application $8,500 DMEA 2511 - Cr and Mn
Harry L. Roberts
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10 miles NE from Los Olivos
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Proposal: It is proposed to dig bulldozer trenches across the "ore-bearing ledges" on 5 mining claims and to sample the ores exposed. Roads will be built as needed.

Comment: The Geological Survey has no detailed information about manganese or chromite on these claims. It is known that chromite float was visible over a large area in 1918 but none was seen in outcrops. Past production from the county is insignificant.

The applicant states that one carload of "metallurgic grade" chromite was shipped to a government Ore Purchase Depot at Phoenix, Arizona in 1942. This shipment was apparently financed by an R.F.C. production loan. The Geological Survey has no record of this shipment or its metal content.

The possibility of finding commercial manganese ore at this locality is poor. It appears that pods of chromite might be uncovered, of unknown grade, by careful tracing of float. The applicant's proposal is not sufficiently detailed to show any objectives, and the proposed cost is considerably more than would be repaid by royalty on any expectable discovery.

Recommendation:

It is recommended that this application be referred to the Field Team for field investigation, or for comment if sufficient information is already available in the regional office without field examination.

D. M. Lemmon

DMEA-25 My

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 2511

Date received 8-4-52

HARRY L. ROBERTS
PEAS VINE STREET
PASO ROBLES, CALIFORNIA

Name and address of applicant

Date 21 April 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

CACHUMA CHROME MINING CO.
(Name of company)

By Harry L. Roberts
(Signature of authorized official)

21 April 1952
(Date)

OWNER-OPERATOR
(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

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 1

Materials produced:
(a) Metallurgic grade Chrome Ore
Metallurgic grade Manganese Ore
Milling Ore (Chromite)
(b) NONE

QUESTION NO. 3

(a) Nearest town is Los Olivos, 10 miles Southwest of mining claims. Nearest Railhead is the Gaviota Freight Yard located 25 miles from mining claims.
(b) Cachuma Mining District
(c) Township 7-N, Section 15, Range 29-W
(d) Santa Barbara, County, California

QUESTION NO. 10

(1) None
(2) None
(3) None

QUESTION NO. 16

Labor:
Three (3) all-round Miners and One (1) Bulldozer Operator.

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 2-511
Metal or Mineral
Date Received 8-4-52
Amount $
Participation (Government %)

HARRY L. ROBERTS
2245 VINE STREET
PASO ROBLES, CALIFORNIA

Name and address of applicant

Date 21 APRIL 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented—NONE

   (*b*) Purchased—NONE

   (*c*) Furnished by you—NONE

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

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

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

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

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

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

CERTIFICATION

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

CACHUMA CHROME MINING CO.
(Name of company)

By Harry L. Roberts
(Signature of authorized official)

OWNER-OPERATOR
(Title)

21 April 1952
(Date)

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

HARRY L. ROBERTS - 2[illegible]5 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 1.

(a) Five mining claims as described below will be involved in the exploration project:

(1) One (1) Manganese deposit named The Black Rock which isshown as No. 5 on attached map.

(2) Four (4) Chromite deposits named Mesa Chrome described as No. 1 and 2 on attachedmap and Chicken Springs which is shown as Nos. 3 and 4 on attached map.

(b) I am the owner of the above enumerated claims.

(c) Claims are located in Santa Barbara County of the Cachuma Mining District which is shown on the Santa Barbara County Surveyor's Map as Section #15, Township 7-N, Range 29-W.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 2

(a) I expect to find Chrome and Manganese ores.

(b) These claims were checked by MR. GUILIO, Mining Engineer for the RFC in Washington D. C., andwere approved for a production loan in 1942.

In 1942 a carload of metallurgic grade ore wasshipped to the Phoenix Government Stockpile in Phoenix, Arizona, and was accepted for the high grade stockpile. This shipment was delivered in the name of SHAFTER HOWARD, who was my partner at that time.

The reason that I anticipate finding chrome andmanganese ores is because of the fact that there isan extensive body of chrome milling ore running through soft serpentine formation averaging 200 feet in width and extending East and West for approximately 3,000 feet. Paralleling this deposit to the South there is an extensive wall of Rhode Chrosite and Rhodenite, which carry nodules of high grade Manganese Ore. On the North side or the Mesa Chrome (No. 1 & 2 of attached map) there are 20 acres of milling ore carrying Lenticular chrome ore.

Also there is an adjoining mine to the North of the proposed project, owned by FRED ONTIVERO, who has mined and shipped several carloads ofmetallurgic grade Chrome Ore to Bethlehem Steel Corporation in Torrance, California. I had charge of the mining operations of latter claim during World War II.

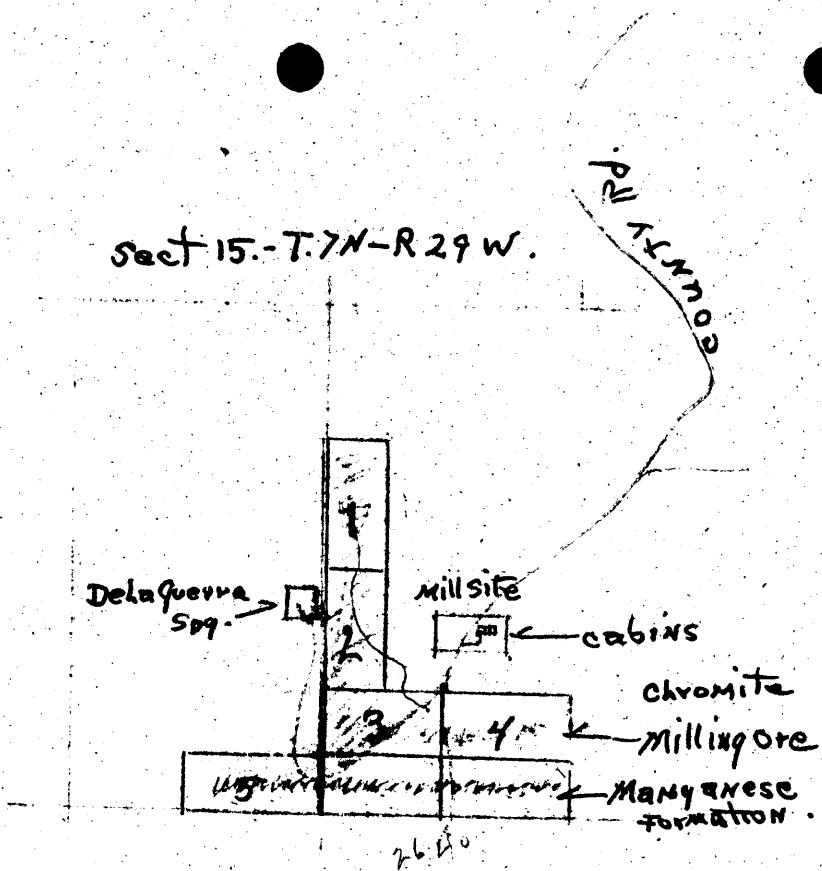
HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 3

(a) It is anticipated to cross-cut the ore bearing ledges with a bulldozer making deep open cuts to expose the ore and gather samples for assaying purposes. The dozer will also be utilized for the construction of road work to facilitate exploration work. It is estimated that the minimum cost for this exploration work will be approximately $5,500.00.

(b) Work on project will be initiated immediately upon receipt of exploration loan and it is expected to require 90 working days to accomplish this task.

Sect 15.-T.7N-R29W.



1. Mesa No. 1
2. ✓ ✓ 2
5 ~~3~~ Black Rock
3 4 Chicken Springs No 1
4 ~~5~~ ✓ ✓ Ext
~~5 Black~~

SCALE

900 ft.

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 5

There are two cabins located on millsite which will furnish comfortable accomodations for six (6) men.

These buildings will require repairs in amount of $250.00 to rehabilitate as living quarters.

HARRY L. ROBERTS - 2845 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 6

It is anticipated to erect a tool shed and a powder house which will cost approximately $300.00

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 8

Following is a list of mining employees and supervisors with rates of pay:

One (1) Supervisor-Miner.....$78.00 per week
Three (3) Miners..... 60.00 per week (each)
One (1) Bulldozer Operator..... 96.00 per week

Room and Board to be furnished employees but not included in above weekly rates of pay.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 9

Following isan itemized list for entire project:

Blasting Materials (To include Dynamite, Fuses, Electrical Detonators, etc.)	$ 250.00
Diesel Fuel for XXX Stoves & Equipment	675.00
Lubricants, Greases, Oils, etc for Equipmant	200.00
Food Supplies for Employees	700.00
Assaying	150.00
Lighting (Carbide)	15.00
Pipeline (500-ft of 1") to carry water from Spring to Camp	150.00
Gasoline for Equipment	425.00

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 10

I am prepared to invest approximately $3000.00 in the the proposed exploration project.

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 11.

The above mentioned claims have not been patented although I have been performing the annual assessment work since 1942

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-251
Metal or Mineral
Date Received 5-5-52
Amount $
Participation (Government %)

HARRY L. ROBERTS
2245 VINE STREET
PASO ROBLES, CALIFORNIA

Name and address of applicant

Date 21 APRIL 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 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.

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

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

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

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

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

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

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

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

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

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

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

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

   MAPS SUBMITTED

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

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

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

   (*a*) Rented —NONE

   (*b*) Purchased —NONE

   (*c*) Furnished by you —NONE

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

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

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

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

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

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

CERTIFICATION

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

CACHUMA CHROME MINING CO.
(Name of company)

By Harry L. Roberts
(Signature of authorized official)

OWNER-OPERATOR
(Title)

21 April 1952
(Date)

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

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 1.

(a) Five mining claims as described below will be involved in the exploration project:

(1) One (1) Manganese deposit named The Black Rock which isshown as No. 5 on attached map.

(2) Four (4) Chromite deposits named Mesa Chrome described as No.1 and 2 on attachedmap and Chicken Springs which is shown as Nos. 3 and 4 on attached map.

(b) I am the owner of the above enumerated claims.

(c) Claims are located in Santa Barbara County of the Cachuma Mining District which is shown on the Santa Barbara County Surveyor's Map as Section #15, Township 7-N, Range 29-W.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 2

(a) I expect to find Chrome and Manganese ores.

(b) These claims were checked by MR. GUILIO, Mining Engineer for the RFC in Washington D. C., andwere approved for a production loan in 1942.

In 1942 a carload of metallurgic grade ore wasshipped to the Phoenix Government Stockpile in Phoenix, Arizona, and was accepted for the high grade stockpile. This shipment was delivered in the name of SHAFTER HOWARD, who was my partner at that time.

The reason that I anticipate finding chrome andmanganese ores is because of the fact that there isan extensive body of chrome milling ore running through soft serpentine formation averaging 200 feet in width and extending East and West for approximately 3,000 feet. Paralleling this deposit to the South there is an extensive wall of Rhodo Chrosite and Rhodonite, which carry nodules of high grade Manganese Ore. On the North side or the Mesa Chrome (No. 1 & 2 of attached map) there are 20 acres of milling ore carrying Lenticular chrome ore.

Also there is an adjoining mine to the North of the proposed project, owned by FRED ONTIVERO, who has mined and shipped several carloads ofmetallurgic grade Chrome Ore to Bethlehem Steel Corporation in Torrance, California. I had charge of the mining operations of latter claim during World War II.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 3

(a) It is anticipated to cross-cut the ore bearing ledges with a bulldozer making deep open cuts to exposethe ore and gather samples for assaying purposes. The dozer will also be utilized for the construction of road work to facilitate exploration work. It is estimated that the minimum cost for this exploration work will be approximately $8,500.00.

(b) Work on project will be initiated immediately upon receipt of exploration loan and it is expected to require 90 working days to accomplish this task.

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 5

There are two cabins located on millsite which will furnish comfortable accomodations for six (6) men.

These buildings will require repairs in amount of $250.00 to rehabilitate as living quarters.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 6

It is anticipated to erect a tool shed and a powder house which will cost approximately $300.00

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 8

Following isa list ofmmining employees and supervisors with rates of pay:

One (1) Supervisor-Miner.....$72.00 per week
Three (3) Miners..... 60.00 per week (each)
One (1) Bulldozer Operator..... 96.00 per week

Room and Board to be furnished employees but not included in above weekly rates of pay.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 9

Following isan itemized list for entire project:

Blasting Materials (To include Dynamite, Fuses, Electrical Detonators, etc.)	$ 250.00
Diesel Fuel for ~~XXX~~ Stoves & Equipment	675.00
Lubricants, Greases, Oils, etc for Equipmant	200.00
Food Supplies for Employees	700.00
Assaying	150.00
Lighting (Carbide)	15.00
Pipeline (500-ft of 1") to carry water from Spring to Camp	150.00
Gasoline for Equipment	425.00

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 10

I am prepared to invest approximately $3000.00 in the the proposed exploration project.

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 11.

The above mentioned claims have not been patented although I have been performing the annual assessment work since 1942

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-2511

Date received 5-5-52

HARRY L. ROBERTS
8245 VINE STREET
PASO ROBLES, CALIFORNIA

Name and address of applicant

Date 21 April 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 5 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

CACHUMA CHROME MINING CO.
(Name of company)

By Harry L. Roberts
(Signature of authorized official)

21 April 1952
(Date)

OWNER-OPERATOR
(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

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 1

Materials produced:
(a) Metallurgic grade Chrome Ore
Metallurgic grade Manganese Ore
Milling Ore (Chromite)
(b) NONE

QUESTION NO. 3

(a) Nearest town is Los Olivos, 10 miles Southwest of mining claims. Nearest Railhead is the Gaviota Freight Yard located 25 miles from mining claims.
(b) Cachuma Mining District
(c) Township 7-N, Section 15, Range 29-W
(d) Santa Barbara, County, California

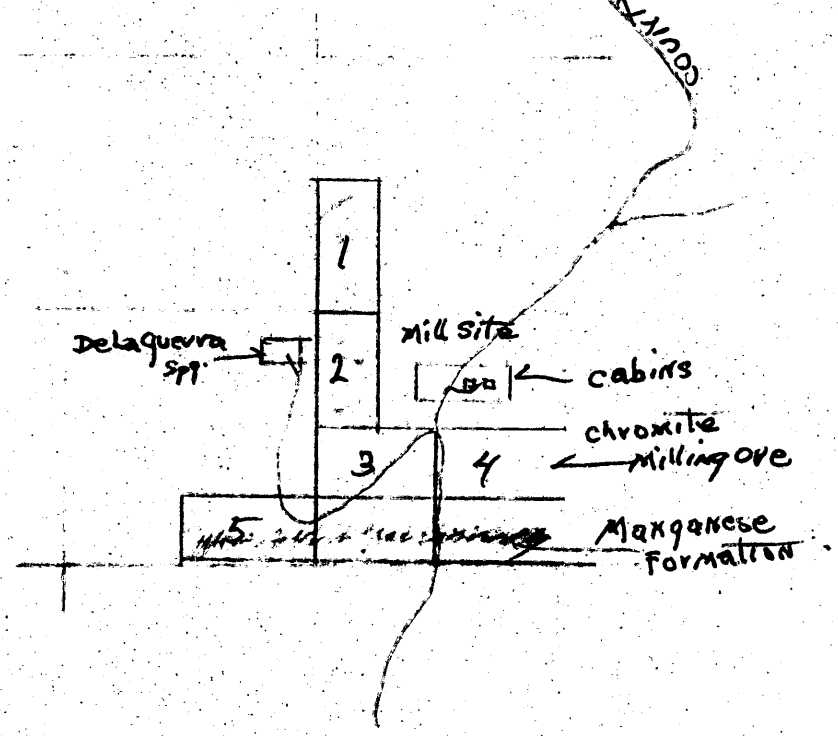
QUESTION NO. 10

(1) None
(2) None
(3) None

QUESTION NO. 16

Labor:
Three (3) all-round Miners and One (1) Bulldozer Operator.

Sect 15 - T. 7N - R. 29 W



EXPLORATION

Subject: DMEA-2511
Re: Exploration Loan
Black Rock, Mesa Chrome, and
Chicken Springs
May 5, 1952

Mr. Harry L. Roberts
2245 Vine Street
Paso Robles, California

My dear Mr. Roberts:

This will acknowledge receipt of your application dated April 21, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2511 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2511 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS
Robert E. Adams
Administrative Officer

7862

DMEA-2511

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.

April 29, 1952

Memorandum

To: Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application of Harry L. Roberts, 2245 Vine Street, Paso Robles, California, for exploration loan - Chrome and Manganese

Attached are three of the four sets of MF-103 and MF-100 forms, dated April 21, 1952, received in this office today from subject applicant.

The fourth set is being retained in this office for use in making a preliminary examination of the property should an engineer or geologist be in the area in the immediate future.

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

Attachment

Copy to E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 5 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2511
Metal or Mineral
Date Received 5-5-52
Amount $
Participation (Government %)

HARRY L. ROBERTS
2245 VINE STREET
PASO ROBLES, CALIFORNIA

Name and address of applicant

Date 21 APRIL 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 5 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented —NONE

   (*b*) Purchased —NONE

   (*c*) Furnished by you —NONE

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

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

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

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

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

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

CERTIFICATION

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

CACHUMA CHROME MINING CO.
(Name of company)

By Harry L. Roberts
(Signature of authorized official)
OWNER-OPERATOR

21 April 1952
(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—64067-2

HARRY L. ROBERTS 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 1.

(a) Five mining claims as described below will be involved in the exploration project:

(1) One (1) Manganese deposit named The Black Rock which isshown as No. 5 on attached map.

(2) Four (4) Chromite deposits named Mesa Chrome described as No. and 2 on attachedmap and Chicken Springs which is shown as Nos. 3 and 4 on attached map.

(b) I am the owner of the above enumerated claims.

(c) Claims are located in Santa Barbara County of the Cachuma Mining District which is shown on the Santa Barbara County Surveyor's Map as Section #15, Township 7-N, Range 29-W.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 2

(a) I expect to find Chrome and Manganese ores.

(b) These claims were checked by MR. GUILIO, Mining Engineer for the RFC in Washington D. C., andwere approved for a production loan in 1942.

In 1942 a carload of metallurgic grade ore wasshipped to the Phoenix Government Stockpile in Phoenix, Arizona, and was accepted for the high grade stockpile. This shipment was delivered in the name of SHAFTER HOWARD, who was my partner at that time.

The reason that I anticipate finding chrome andmanganese ores is because of the fact that there isan extensive body of chrome milling ore running through soft serpentine formation averaging 200 feet in width and extending East and West for approximately 3,000 feet. Parallelling this deposit to the South there is an extensive wall of Rhodo Chrosite and Rhodonite, which carry nodules of high grade Manganese Ore. On the North side or the Mesa Chrome (No. 1 & 2 of attached map) there are 20 acres of milling ore carrying Lenticular chrome ore.

Also there is an adjoining mine to the North of the proposed project, owned by FRED ONTIVERO, who has mined and shipped several carloads ofmetallurgic grade Chrome Ore to Bethlehem Steel Corporation in Torrance, California. I had charge of the mining operations of latter claim during World War II.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 3

(a) It is anticipated to cross-cut the ore bearing ledges with a bulldozer making deep open cuts to exposethe ore and gather samples for assaying purposes. The dozer will also be utilized for the construction of road work to facilitate exploration work. It is estimated that the minimum cost for this exploration work will be approximately $8,500.00.

(b) Work on project will be initiated immediately upon receipt of exploration loan and it is expected to require 90 working days to accomplish this task.

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 5

There are two cabins located on millsite which will furnish comfortable accomodations for six (6) men.

These buildings will require repairs in amount of $250.00 to rehabilitate as living quarters.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 6

It is anticipated to erect a tool shed and a powder house which will cost approximately $300.00

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 8

Following isa list ofmmining employees and supervisors with rates of pay:

One (1) Supervisor-Miner.....$72.00 per week
Three (3) Miners..... 60.00 per week (each)
One (1) Bulldozer Operator..... 96.00 per week

Room and Board to be furnished employees but not included in above weekly rates of pay.

HARRY L. ROBERTS - 2245 VINE ST., PASO ROBLES, CALIFORNIA

QUESTION NO. 9

Following isan itemized list for entire project:

Blasting Materials (To include Dynamite, Fuses, Electrical Detonators, etc.)	$ 250.00
Diesel Fuel for XXX Stoves & Equipment	675.00
Lubricants, Greases, Oils, etc for Equipment	200.00
Food Supplies for Employees	700.00
Assaying	150.00
Lighting (Carbide)	15.00
Pipeline (500-ft of 1") to carry water from Spring to Camp	150.00
Gasoline for Equipment	425.00

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 10

I am prepared to invest approximately $3000.00 in the the proposed exploration project.

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 11.

The above mentioned claims have not been patented although I have been performing the annual assessment work since 1942

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

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

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

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

CACHUMA CHROME MINING CO.
(Name of company)

By Harry L. Roberts
(Signature of authorized official)

21 April 1952
(Date)

OWNER-OPERATOR
(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

HARRY L. ROBERTS - 2245 VINE STREET, PASO ROBLES, CALIFORNIA

QUESTION NO. 1

Materials produced:
(a) Metallurgic grade Chrome Ore
Metallurgic grade Manganese Ore
Milling Ore (Chromite)
(b) NONE

QUESTION NO. 3

(a) Nearest town is Los Olivos, 10 miles Southwest of mining claims. Nearest Railhead is the Gaviota Freight Yard located 25 miles from mining claims.
(b) Cachuma Mining District
(c) Township 7-N, Section 15, Range 29-W
(d) Santa Barbara, County, California

QUESTION NO. 10

(1) None
(2) None
(3) None

QUESTION NO. 16

Labor:
Three (3) all-round Miners and One (1) Bulldozer Operator.

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-2511

Date received 5-5-52

HARRY L. ROBERTS
2245 VINE STREET
PASO ROBLES, CALIFORNIA

Name and address of applicant

Date 21 April 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 5 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

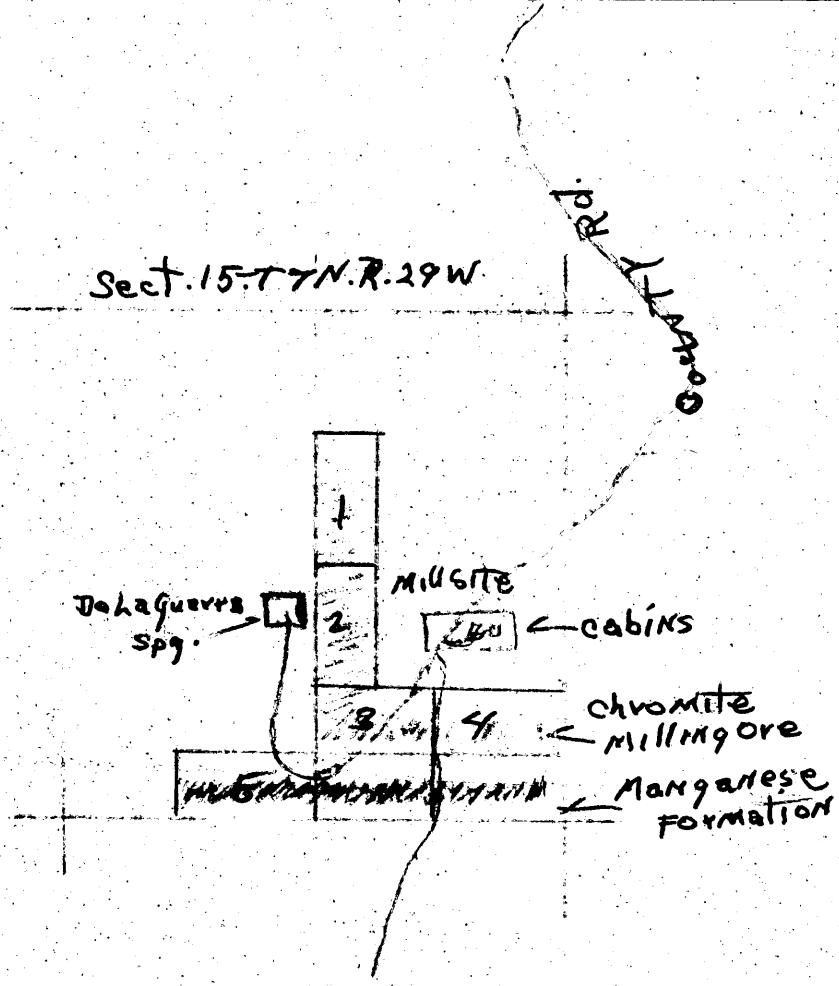
10. Production:

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

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

r Mineral Reserves:

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


Sect. 15 T7N. R. 29W
Rd.
1
2
3
4
MILLSITE
DeLaGuerra Spg.
cabins
chromite millingore
Manganese formation