DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

Mangarese

CONTROLLED DOCUMENT

DMEA
~~DMA~~ Docket No. 2238

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EXPLORATION PROJECT

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

Routing Slip

To: IRON & FERRO ALLOYS Date 11-21-51

To: Operating Com. Date 3-28-52

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

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400

FILE COPY
SURNAME:

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

Selfridge
Boyce
Hedges
Johnson

MAR 3 1 1952

Mr. H. B. Christopher, Sec.-Treas.
C. M. S. Strategic Metals, Inc.
8000 S. E. Foster Road
Portland 6, Oregon

Re: Docket No. DMEA 2238X - Manganese
Black Beauty No. 1, et al. claims
Del Norte County, California

Dear Mr. Christopher:

Your application for exploration project assistance and other data available to us in Washington have been carefully reviewed. The information 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 calling the property to our attention.

Sincerely yours,

C. O. Mittendorf

J.N. 3-31-52

Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:ls
3/27/52

cc: Docket
Admn. Reading File
Operating Committee
Field Team, Region 3
G. C. Selfridge
N. B. Melcher, USBM
M. D. Crittenden, USGS

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Acting Administrator, D.M.E.A. DATE: March 27, 1952

FROM : Iron and Ferro-Alloy Division, D.M.E.A.

SUBJECT: Denial of exploration project in the amount of $30,000
Docket No. DMEA 2238X - Manganese
C. M. S. Strategic Metals, Inc.
Black Beauty No. 1, et al., Claims
Del Norte County, California

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

(1) The deposit is typical of those found in the Klamath Mountains of northern California. The primary manganese mineralization consists of rhodochrosite and rhodonite that have been superficially oxidized, forming shallow deposits of pyrolusite and psilomelane. The deposits are neither large enough nor oxidized enough to produce more than a few tons of ore. Total production from the entire area has been less than 200 tons of ore.

(2) The Commodity Divisions of both the United States Geological Survey and the United States Bureau of Mines, and the Field Team recommend denial.

G. C. Selfridge

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

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Acting Administrator, D.M.E.A.

March 27, 1952

Selfridge

Iron and Ferro-Alloy Division, D.M.E.A.

Denial of exploration project in the amount of $30,000
Docket No. DMEA 2238X - Manganese
C. M. S. Strategic Metals, Inc.
Black Beauty No. 1, et al., Claims
Del Norte County, California

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

GCSelfridge:ls
3/27/52

cc: Docket
Admn. Reading File
Operating Committee
G. C. Selfridge

p.s. in R. v R.

OFFICE OF THE ADMINISTRATOR

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.

March 19, 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 No. DMEA 2238X - Manganese Mining Claims in Sections 1, 2 and 12, T. 18 N., R. 5 E.; Sections 6 and 7, T. 18 N., R. 6 E., Del Norte County, California

Reference is to your subject letter dated February 28 requesting us to review the captioned application and attached data and "advise whether or not you concur with the Commodity Branches that the project offers very little chance for a significant mineral discovery to be made".

I have had my assistant, Mr. Spangler Ricker, who is familiar with many of the manganese deposits in Del Norte County, review the application and supporting documents. Mr. Ricker reports that from a review of the data relative to the subject docket, he concurs in the conclusions arrived at by the Commodity Branches that the proposed project does not offer reasonable possibilities of developing commercial reserves of manganese ores. He says the primary ores are evidently rhodonite and rhodochrosite, and from data available there is insufficient evidence that there are fair chances of developing appreciable tonnages of commercial oxide ores.

The Washington file is being returned herewith.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 24 1952

Attachment

Copy to E. H. Bailey

FILE COPY
SURNAME:

FE Johnson

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

Reg-111

FEB 28 1952

Mr. H. B. Christopher
Secretary-Treasurer
C. M. S. Strategic Metals, Inc.
8000 S. E. Foster Road
Portland 6, Oregon

Re: Docket No. DMEA-2238X
(Manganese)
Del Norte County, Calif.

Dear Mr. Christopher:

Your letters of December 20 and 26, 1951 have been received and we thank you for furnishing the additional information in connection with your application. However, it is felt that more information is needed from the field team and your application is therefore being referred to Mr. H. C. Hiller, Executive Officer, DMEA Field Team, Region III, San Francisco, California.

Upon receipt of the additional information we will advise you of our findings with respect to your application.

W. B. Mittendorf

Acting Administrator

S.N. 2-28-52

FEJohnson/hb

Copy to: Adm. Reading File
✓Docket
N. B. Melcher
M. D. Crittenden
Field Team, Region III
G. C. Selfridge
G. G. Gentry
F. E. Johnson

S.R.

Docket 400

FILE COPY
SURNAME:

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

FEB 28 1952

Regrn

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

Re: Docket No. DMEA 2238X - Manganese Mining Claims in Sections 1, 2 and 12, T. 18 N., R. 5 E.; Sections 6 and 7, T. 18 N., R. 6 E.
Del Norte County, California

Dear Mr. Miller:

Enclosed herewith please find copies of memoranda from Mr. Melcher, Mr. Crittenden, the U. S. Bureau of Mines and copies of additional pertinent data, all relative to the subject docket.

You will note that a report by Mr. Henry Becker, dated June 11, 1951, states that all discovery shafts, etc. had caved and very little could be seen of the extent of the property.

The applicant states that he has an open cut on the property 40 feet long by 8 feet high, with manganese exposed for a length of 30 feet and width of 4 feet in the floor, but he does not state the grade of the ore.

We would like to have you review this application and the attached data and advise us whether or not you concur with the Commodity Branches that the project offers very little chance for a significant mineral discovery to be made.

While Mr. Crittenden believes that the evidence as submitted does not justify a routine field referral or another trip to the deposit,

S.R.

we feel that this matter should be determined by your office after due consideration of all the information pertaining to the project.

May we hear from you at your earliest convenience?

Sincerely yours,

(signed) FRANK E. JOHNSON (GHB)

Chairman, Operating Committee
Defense Minerals Exploration
Administration

S.N.
2-28-52

Enclosures

Approved:

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

L. P. Thayer
Member, Geological Survey

GGGentry'lm
2/20/52

cc: Admn. Reading File
Docket
N. B. Melcher
M. D. Crittenden
Field Team Reg. III
G. C. Selfridge
G. G. Gentry

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George Selfridge, DMEA DATE: January 5, 1952
Through N. B. Melcher

FROM : M. D. Crittenden

SUBJECT: DMEA_2238 Manganese - C.M.S. Strategic Minerals Inc.

With further reference to my memorandum of December 29, the attached report from the Field Team, Region III, supplies the information originally requested. Moreover it verifies my tentative appraisal that the prospect for a significant discovery in this area is poor. It is suggested, therefore, that the application be rejected without further consideration.

Morris D. Crittenden Jr.

Obtained from Mr. Melcher's office February 19, 1952.
GCL

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

January 3, 1952

Memorandum

To: George C. Selfridge

From: Norwood B. Melcher

Subject: DMEA 2238 - C. M. S. Strategic Minerals, Inc.

The Bureau of Mines has no information on this deposit other than that presented by Mr. Crittenden. Consequently, it is recommended that the application be rejected providing the Field Team will concur.

Norwood B. Melcher

1 copy removed for file

FILE COPY
Surname:

Ridgway

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

January 3, 1952

Memorandum

To: George C. Selfridge

From: Norwood B. Melcher

Subject: DMEA 2238 - C. M. S. Strategic Minerals, Inc.

The Bureau of Mines has no information on this deposit other than that presented by Mr. Crittenden. Consequently, it is recommended that the application be rejected providing the Field Team will concur.

Norwood B. Melcher

NBMelcher:lds

Copy to: Mr. Ridgway
Mr. Melcher
Files

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George S. Selfridge DATE: December 29, 1951

FROM : Max D. Crittenden, Jr.,

SUBJECT: DMEA-2238 Manganese - C.M.S. Strategic Minerals Inc.

The applicant proposes to spend $30,000 to explore the Black Beauty No. 1 claim in sec. 1, 2, and 12, T. 18 N. R. 5 E., and sec. 6 and 7, T. 18 N., R. 6 E., Del Norte County, California.

The Geological Survey has no first hand information concerning this deposit, however, it is possible to draw some general conclusions from the information submitted by the applicant, and from the geological conditions and the type of deposits known to exist in that area. The company reports that a 50 lb. sample ran 30.2 percent MnO_2 which is equivalent to only 19 percent Mn. The Bureau of Mines reports the presence of rhodochrosite and rhodonite. All of this serves to confirm the probability that the mine is typical of those in the Klameath Mountains of northern California. All the deposits that have been studied are formed by the near-surface oxidation of rhodonite and-or rhodochrosite. No such deposit has proved large enough or sufficiently oxidized to produce more than a few tons; the total production for the area is less than 200 tons. The only possible market for ores of this low grade is the plant in Salem, Oregon.

There appears to be little or no prospect that the deposit in question can produce ore that will meet government specifications, and the prospects for a significant discovery appear to be poor. It is recommended therefore, that the application be rejected provisionally, subject to the concurrence of the Field Team. I do not believe the evidence available warrants a routine Field Referral, or another trip to the deposit and this should be indicated in the letter to the Field Team. Nevertheless it would be advisable for them to submit a brief memorandum including the facts obtained during the earlier examinations, and the sample data or metallurgical studies.

Max D. Crittenden Jr.

Max D. Crittenden Jr.

OFFICE OF THE ADMINISTRATOR

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

Office of
Executive Officer
DMEA Field Team
Region III

DMEA-2238

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

December 27, 1951

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for exploration assistance, CMS Strategic Metals, Inc., Portland 6, Oregon; property in Del Norte County, California

Attached is some supplemental information on the subject property which was received yesterday from Mr. M. E. Volin, DMEA Field Team, Region II. Although this information is of questionable worth, it should be added to the applicant's Washington file.

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

Copy to E. H. Bailey

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 - 1952

C. M. S. STRATEGIC METALS, Inc.

8000 SOUTH EAST FOSTER ROAD • PORTLAND 6, OREGON

TELEPHONE SUnset 0898

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 28 1951

December 26, 1951

United States Department of the Interior
Defense Minerals Administration
Iron and Ferro-Alloys Branch
Washington 25, D. C.

Subject: DMEA-2238
Re: Exploration Loan

Dear Sirs:

We have in our possession additional information on the manganese from the claims of C. M. S. Strategic Metals, Inc., Del Norte County, California.

We received a letter from Mr. M. E. Volin of Region II, dated December 20, 1951, in which he stated that he had forwarded to Mr. H. C. Miller of Region III a report made by one of their field teams, Mr. Jones and Mr. McWilliams. Also enclosed was a copy of the assays made by Jones and McWilliams on their second inspection trip. They are:

#25355, C.M.S. Strategic Metals 163-9, Proj. 516, M.N. 16.2%
#25356, C.M.S. Strategic Metals 163-10, Proj. 516, M.N. 29.2%
#25357, C.M.S. Strategic Metals 163-11, Proj. 516, M.N. 28.3%
#25358, C.M.S. Strategic Metals 163-12, Proj. 516, M.N. 41.7%

We sincerely hope that the information we have sent will assist you in processing our application. Wishing you a prosperous New Year, we are,

Yours very truly,

C. M. S. STRATEGIC METALS, INC.

H. B. Christopher

H. B. Christopher
Secretary-Treasurer

HBC:sh

C. M. S. STRATEGIC METALS, Inc.

8000 SOUTH EAST FOSTER ROAD • PORTLAND 6, OREGON

TELEPHONE SUnset 0898

December 20, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 27 1951

United States Department of the Interior
Defense Minerals Administration
Iron and Ferro-Alloys Branch
Washington 25, D. C.

Subject: DMEA-2238
Re: Exploration Loan

Dear Sirs:

We would like to make inquiry as to the progress of the above mentioned loan and also inclose additional information on this property. We know that our application was not properly made out. We would like to ask your assistance in completing necessary details.

For your information we are enclosing copies of the following reports:

1. Qualitative Spectrographic Analysis of a sample of Manganese ore from our claims made by the Charlton Laboratories, Inc.

2. Quantitative Analysis of the above mentioned ore made by the Charlton Laboratories, Inc.

3. An Analysis made by Mr. A. J. Kauffman, Jr., Chemist-Petrographer, of the Bureau of Mines at Albany, Oregon.

4. A personal letter from Mr. E. A. Leonard, Mining Geologist, regarding his inspection of the claims.

5. Mr. Leonard's inspection report of the above property.

6. A personal letter from Mr. Henry Becker, M. E., of Spokane, Washington, regarding inspection he made of the property.

This property enbraces approximately eight hundred acres of land staked in accordance with the requirements of the United

States Government and the State of California. This fall we completed three and one-half miles of access road, beginning at the county road and terminating in the middle of our property.

In addition to the manganese we have uncovered, we have cut two veins of asbestos and have discovered a vein several feet wide running into nickel and clobolt. We have found float of several other valuable metals but have not had the time to investigate these.

A field teem of engineers from the U. S. Bureau of Mines of Albany, Oregon, who were stationed within a few miles of our property, made two examinations of it. On the second one they took four samples and we are informed that they run MM 16%, 27%, 29% and 41%. Various assays taken by us and others have run from 37% to 69% MM.

We hope that this enclosed information will assist you in processing our application. Thanking you for your kind attention and assistance, we are,

Yours very truly,

C. M. S. STRATEGIC METALS, INC.

H. B. Christopher

H. B. Christopher
Secretary-Treasurer

HBC:sh

Encls.-6

COPY

LABORATORY CERTIFICATE
CHARLTON LABORATORIES
2340 S. W. Jefferson St.
Portland 7, Oregon

To: Tri-State Development Company
8000 S. E. Foster Road
Portland 6, Oregon

Laboratory No. 29247 - B

Subject: Ore
Rec'd 4/6/51

Date: April 20, 1951

Qualitative Spectrographic Analysis
Estimates to Nearest Power of Ten

Elements Present	Estimated Percent Sample No. 3, Manganese
Iron (Fe)	1 to 10
Silica (SiO_2)	over 10
Calcium (Ca)	1 to 10
Manganese (Mn)	over 10
Magnesium (Mg)	0.1 to 1
Aluminum (Al)	0.1 to 1
Titanium (Ti)	0.1 to 1
Copper (Cu)	0.001 to 0.01
Arsenic (As)	Trace
Chromium (Cr)	0.01 to 0.1
Nickel (Ni)	0.001 to 0.01
Zinc (Zn)	0.001 to 0.01
Tungsten (W)	Trace
Lead (Pb)	0.001 to 0.01
Vanadium (V)	0.001 to 0.01
Molybdenum (Mo)	0.01 to 0.01
Tin (Sn)	Trace

CHARLTON LABORATORIES, INC.

BY: J. M. Regl

jmh/da
2c

COPY

COPY
(Extract)

CHARLTON LABORATORIES

2340 S. W. Jefferson St.

P. O. Box 1048
Portland 7, Oregon

April 20, 1951

SAMPLE

Manganese (Mn)	38.0%
Silica (SiO_2)	17.6%

CHARLTON LABORATORIES, INC.

BY:

/s/ J. M. Hogl

COPY
(Extract)

COPY

COMPUTATION SHEET

Name: E. A. Leonard
Date: 11/29/51

Project: C.M.S. Strategic Metals
Manganese Props.

Job: Cursory Inspection of Property

Dear Mr. Christopher et al:

I am enclosing the brief report that you have requested from me. The films I could not get back in time for your meeting Monday. Will forward them as soon as I receive them back from the kodak branch here, where I have my work done.

As far as my own convictions I could have made this report stronger but did not think it was the wise thing to do under the circumstances, and with what you have now in mind for the property. It should suffice for your purposes, and certainly no one who knows anything about mining or geology could find I exagerrated the prospects of the property. In this particular instance, as in most, a property has to stand or fall on its own merits as best each person can determine them from the data available. Any new engineer will come in somewhat skeptical, so its rather important that they find as much or more than you claim. Hoping everything turns out for the best in your present endeavour. Let me know how things turn out in any event. Send any correspondence to me at the address below.

Sincerely,

Edward A. Leonard
8222 Latona Ave. Seattle 5, Washington

COPY

COPY

Memo of Cursory Inspection of C.M.S. Manganese Props.

By E. A. Leonard - Mining Geologist
Made on Oct. 27 & 28, 1951
Owner - C.M.S. Strategic Metals Corp. Portland, Ore.

The C.M.S Strategic Metals Manganese Group consists of The Packer Creek, Black Beauty, #1 Ray, Del Nor Cal #1, Del Nor Cal #2, Lo Mar, CMS #1, & CMS #2 Lode Claims and the CMS Tunnel Sites #1, #2, & #3. These claims and tunnel sites are all located around the common corner of Secs. 6, 7, 1, & 12 Township 18 N Ranges 5 & 6 E. Humboldt Meridian in the N. E. Cor. of Del Norte County California approx 2 miles south of the Oregon-California line & approx. 6 miles S.E. of the town of Takilma, Oregon. The property can best be reached by approx. 5-1/2 miles of improved county roads from Takilma, Oregon and thence approx. 2-1/4 miles on new bulldozed road recently constructed by the present owners of the mine. When this new stretch of road has been gravelled the mine could be operated the year around. Suitable bank run material is at hand for this purpose & this work could be done very quickly at a very low cost.

These claims are all unpatented & are held by filing by the C.M.S. Strategic Metals, Inc. of 8000 S. E. Foster Road, Portland 6, Oregon. A corp. set up for developing these properties originally held by Mr. Charles F. Morris & Partner of Portland, and Takilma, Oregon, respectively.

There are bunkhouses and cookhouse now in operation below the property, but no buildings (mine, mill), or bunkers have been built on the property. I believe very little besides loading bunkers would be required as ore of sufficiently high grade for direct mine to market shipment should be found here in quantity and if the pit is kept properly clean very little sorting or concentration of any kind should be necessary.

Several pits have been opened up on the property, all showing manganese, but none have reached sufficient depth to really show what can be expected of the property. A few core drill holes & some magnetometer work to outline the extent of the ore body is a must as the next step in the development of this property. However, the geology of this area is right, and after having looked over many of the manganese showings & active mines in western North America I am convinced this property has as good a chance of being a large producer of high grade manganese as any I have seen. I did some work with a Fisher "M" scope, in lieu of a magnetometer, and quite a large body of ore was indicated by the use thereof. It appeared to me from the "M" scope data that there could be a lenticular deposit of high grade ore on the Black Beauty Claim rather than a vein. In summation I feel this property is worthwhile & if properly developed it could be of great benefit to the country in the present emergency.

Sincerely,

Edward A. Leonard

COPY

COPY

Opportunity, Washington
June 11, 1951.

C. M. S. Strategic Metals Inc.
Att: Mr. Ray O. Shurtliff
Portland, Oregon.

Dear Sir:

In answer to your letter of June 5th, I want to say that my examination of your Manganese property in October 1950 was very cursory: as I had only a few hours to spend at the claims.

There hadn't been any work done in years, all discovery shafts, etc. had caved, and very little could be seen of the extent of the property; although I was very much impressed by the numerous outcroppings over such a large area.

In view of the above facts, I would not care to give you a report at this time, as it wouldn't do you much good with the Bureau of Mine's Engineers.

You should apply to your nearest bureau of mines station for an exploration loan. I don't think you would have any trouble getting the property diamond drilled, as in my opinion the showing is excellent and I believe the Bureau's Engineers will see it that way.

Wishing you good luck in the development of your property, I am

Yours truly,

Henry Becker M. E.

COPY

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Mines

Albany, Oregon
July 11, 1951

P - 1521

Mr. Ray Shurtliff
8000 S. W. Foster Rd.
Portland, Oregon

Dear Mr. Shurtliff:

Reference is made to the sample you recently left at the laboratory for examination.

Rhodochrosite is the predominant manganese mineral with smaller amounts of rhodonite, pyrolusite, and psilomelane. The associated gangue is quartz, clay, and calcite.

Sincerely yours,

A. J. Kauffman, Jr.,
Chemist-Petrographer

COPY

Important. This is the only copy left

C. M. S. STRATEGIC METALS, Inc.

8000 SOUTH EAST FOSTER ROAD • PORTLAND 6, OREGON

TELEPHONE SUnset 0898

Nov. 1, 1951

Defence Minerals Adm.
Dear Sirs;

Due to my limited knowledge and the newness of our property I find it practically impossible to answer the questions in these forms. I hope that an informal letter will assist you in starting this reguest for assistance.

Our property consists of 6 rec. hard rock claims, 2 unrec. hard rock claims, 2 rec. and 2 unrec. placer claims, 2rec. and 1 unrec. tunnel claims of 3000' by 3000'. These are located in Sec. 1,2 and 12 T18N R5E, Sec 6&7 T18N R6E, Del Norte Cty. Calif. These claims are all located on U. S. Forestry Ground under the Stone and Timber Act. None are on O. & C. ground.

We have found Manganese, iron and Gold. We have also found indication and traces of the following ores, Nickle, Chrome, Platinum, Cobalt, Tin, Asbestos, Tungsten, Copper and several other metals. We have not had the time or money to explore these.

We have Contacted Manganese in an area roughly covering $\frac{1}{4}$ mile by $\frac{1}{2}$ mile. Our main discovery is on the Black Beauty #1, there we have an open cut on the side of the hill approx. 40' long and 8' high. The Manganese is exposed for a length of 30' and a depth of 4' with ore on the floor. At the 4' depth we sank for 8' making 12' in depth in solid ore with it continuing down for an unknown depth. We have contacted Manganese and Manganese walling for several hundred feet both up and down the hill from our cut. We have opened a smaller face approx. $\frac{1}{8}$ mile south on the same side of the hill. This is on our LoMar #1 and is on what we consider our width. The face of the ore is 6' by 3' and continues on both ends and down for an unknown distance. This ore is of the same high grade as on the Black Beauty #1 and is at the same depth under a sedimentry lime covering.

We are on the lower end of a highly oxydized zone of outcropings extending for some distance to the east of us. The deposit is laying with green serpentine dipping underit and a sedimentry lime deposit on top of it. This leads us to believe that the deposit could be a large bedding of high grade Manganese.

Mn or MnO_2?

Various assays taken in the past have ranged from 37% to over 60%. The Continental Chemical Co. of Salem, Ore. ran a composite sample of about 50# from several holes it went 30.2% free recovery MNO2. The Bureau of Mines at Albany, Ore. ran some and stated that it contained Rhodochrosite , pyrolusite, psilomelane and rhodonite. This ore does not contain any excessive amounts of penalizable foreign materials of any type and the silica is very low.

= 19% Mn.

C. M. S. STRATEGIC METALS, Inc.

8000 SOUTH EAST FOSTER ROAD • PORTLAND 6, OREGON

TELEPHONE SUnset 0898

#2

The Bureau of Mines engineers have been on the property twice and recomended this request for financial assistance.

At present we are engaged in building an access road to the Black Beauty #1 and we feel that inside of two weeks after we reach there we can start making limited shipments of a good grade of ore.

We would like to make a request for $30,000.00 of which we would furnish $7,500.00. This aplication for aid for and exploration project under Sec 9 of MO-5. Subject to the goverment participation of 75% on Manganese.

Due to the fact that this is a new development we find it impossible to give a detailed outline of expenditures. The money would be used for diamond drilling, rental of a cat. for surface cutting and road maintance, wages room and board for the employees, and the materials, supplies, engeneering, assaying and other items necessary.

We are renting two cabins for a total of $35.00 per month. We do plan any major building on this loan.

The money when granted will used at once and this project will take about 3 to 4 months to complete.

Thanking you very much and looking forward to your assistance.

Yours Very Truly

H. B. Christopher

H. B. Christopher Sec. Treas.

Mine Adress C. M. S. Strategic Metals
Takilma , Ore.

OFFICE OF THE ADMINISTRATOR

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

Office of
Executive Officer
DMA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

November 16, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee,
Defense Minerals Administration, Washington 25, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Exploration Project Application - Manganese
C.M.S. Strategic Metals, Inc., Portland, Oregon.
Property in Del Norte County, Calif.

Attached is application Form MF-103 from H. B. Christopher, Sec.-Treas., C. M. S. Strategic Metals, Portland, Oregon, together with four copies of Form MF-100, General Technical Data, covering request for a loan of $30,000.00 to explore some manganese property in Del Norte County, California.

This application was originally submitted to the DMA Field Team, Region II, Spokane, Washington, and was received in our office this morning.

Will you kindly have the necessary action taken on this application.

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

Attachment

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
Nov 20 1 33 PM '51

MN

Subject: DMEA-2238
Re: Exploration Loan

Mr. H. B. Christopher, Sec'y.-Treas.
C. M. S. Strategic Metals Inc.
8000 S. E. Foster Road
Portland 6, Oregon

My dear Mr. Christopher:

This will acknowledge receipt of your application dated November 1, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2238 and referred to the Iron & Ferro-Alloys Branch.

Kindly refer to DMEA-2238 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Reports & Records Unit

7862

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. D. MFA. 2238
Metal or Mineral
Date Received 11-20-51
Amount $
Participation (Government %)

C. M. S. Strategic Metals Inc.
8000 S. E. Foster Rd.
Portland 6, Ore.

Name and address of applicant

Date Nov. 1, 1951

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.

DEFENSE MINERALS ADMINISTRATION WASHINGTON D.C. Nov 20 1951

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

C. M. S. Strategic Metals Inc. (Name of company) By [signature] (Signature of authorized official)

Nov. 1, 1951 (Date) Sec. Treas. (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

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. D. MEA. 2238

Date received 11-20-51

C. M. S. Strategic Metals Inc.
8000 S. E. Foster Rd.
Portland, Ore.

Name and address of applicant

Date Nov. 1, 1951

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 none
   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.

DEFENSE MINERALS ADMINISTRATION

Form 8-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 12-20

REFERRED TO:

1. H. C. Miller
2. Exec Ofcr, F.T., Reg 11
3.
4.

FOR:

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

REMARKS: Re your letter Nov. 16-51, on CMS Strategic Metals, Inc mn, Del Norte Co, Calif., here with our file information. Not too complete!

Check (X) before the items needing attention.

McGlohn
Initials of sender.

GPO 16—51162-1

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1951 DEC 26 AM 9:58

SAN FRANCISCO, CALIFORNIA

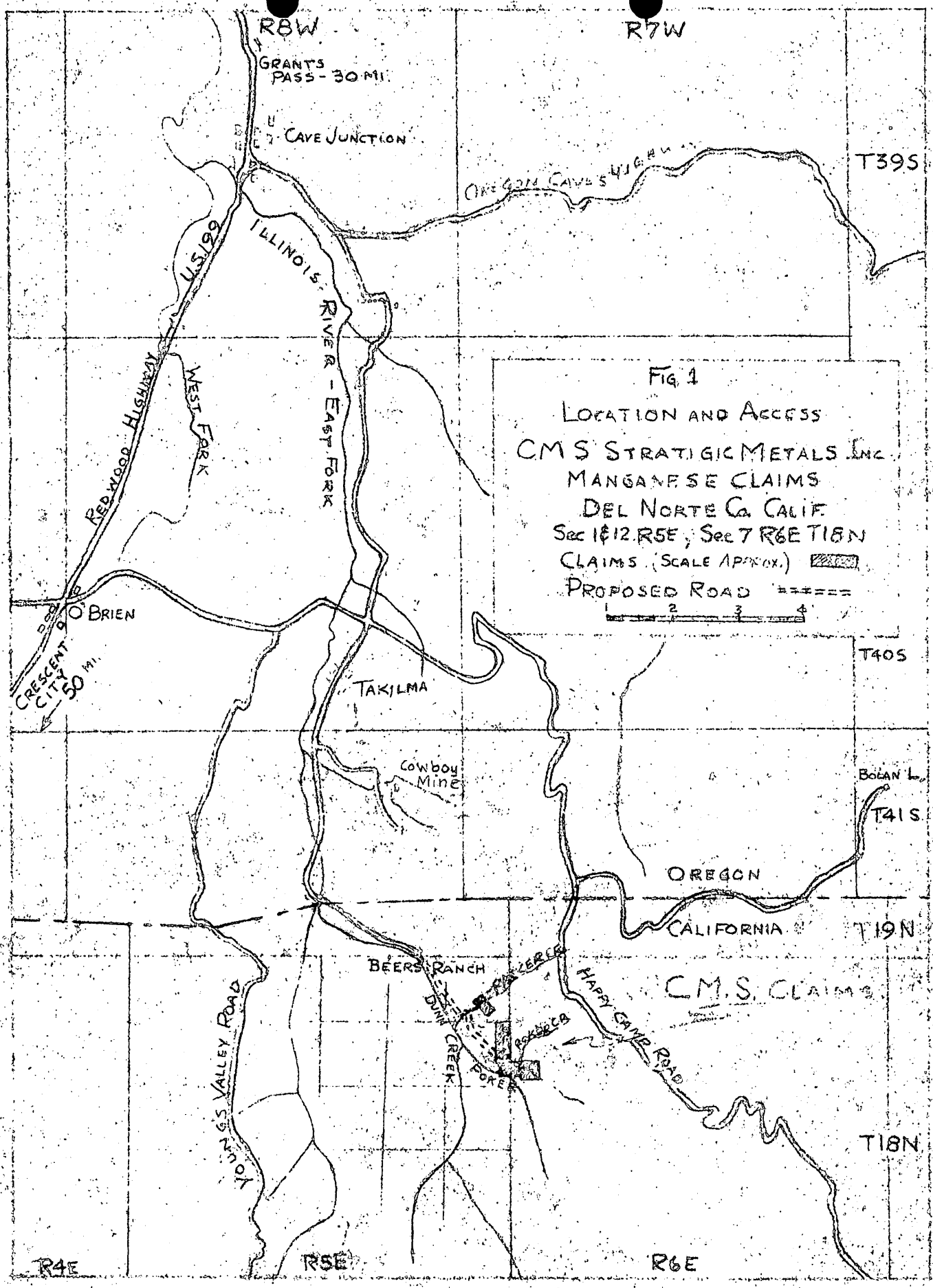
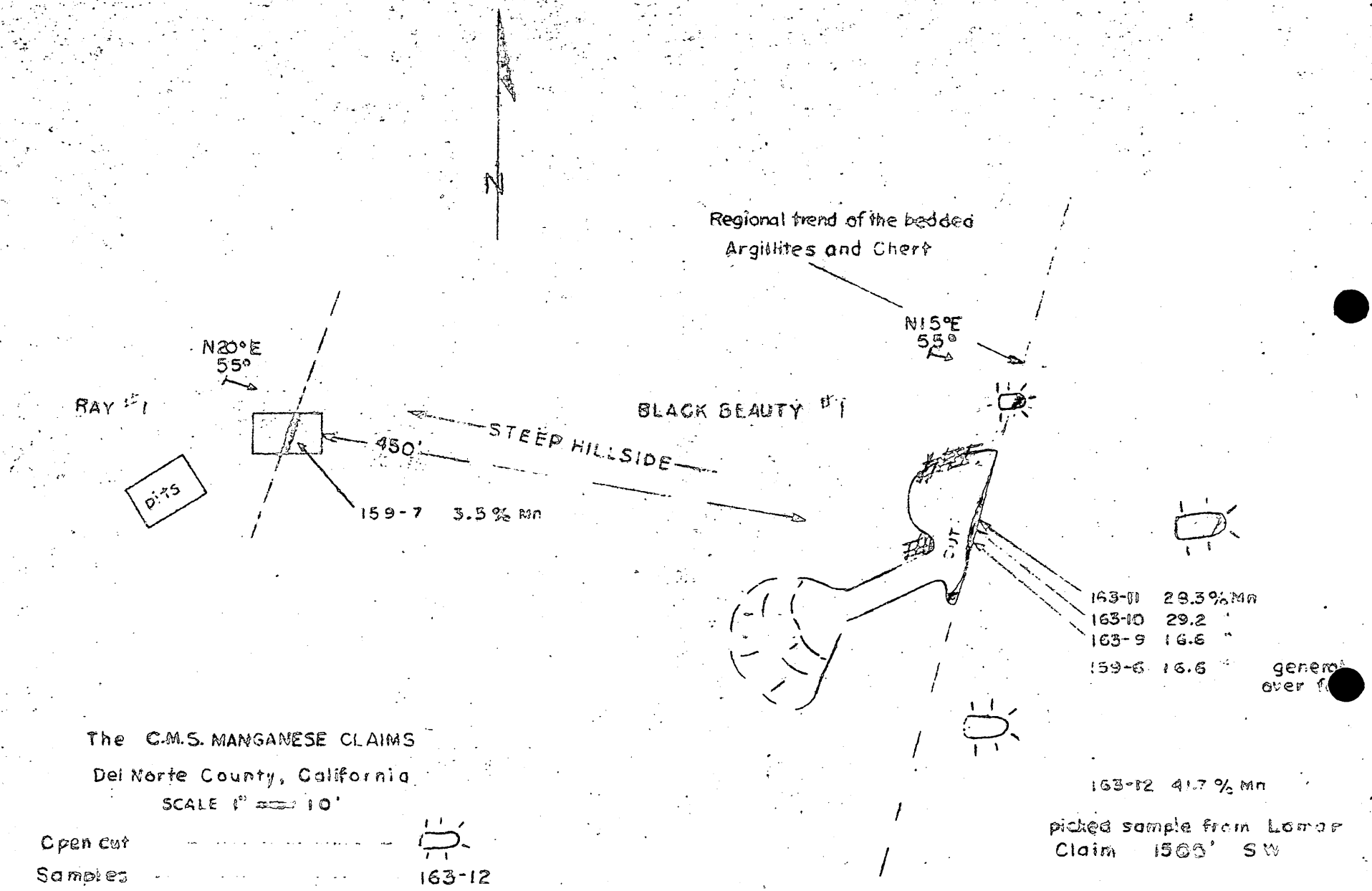


FIG. 1
LOCATION AND ACCESS
CMS STRATIGIC METALS INC.
MANGANESE CLAIMS
DEL NORTE CO. CALIF.
Sec 1 & 12 R5E ; Sec 7 R6E T18N
CLAIMS (SCALE APPROX.)
PROPOSED ROAD
1 2 3 4


N
Regional trend of the bedded
Argillites and Chert
N15°E
55°
N20°E
55°
RAY #1
BLACK BEAUTY #1
STEEP HILLSIDE
450'
DITCH
159-7 3.5% Mn
CUT
163-11 28.3% Mn
163-10 29.2 "
163-9 16.6 "
159-6 16.6 "
general
over
163-12 41.7 % Mn
picked sample from Lomar
Claim 1500' SW
The C.M.S. MANGANESE CLAIMS
Del Norte County, California
SCALE 1" = 10'
Open cut
Samples 163-12
Manganese Oxides
Rhodonite - Rhodocrosite (?)

C.M.S. Strategic Metals, Inc.
Del Norte County, California
Manganese

Introduction and Summary

The C.M.S. Strategic Metals manganese prospect lies on the east side of Dunn Creek between Poker Creek and Packer Creek, both minor tributarys of Dunn Creek. It is about two miles south of the Oregon-California border in the upper reaches of the east fork of the Illinois River.

The development work consists of six small pits and one fairly large pit. Very little work was done prior to the acquisition by the present owners, C.M.S. Strategic Metals of Portland, Oregon. No manganese ore has been shipped. About ten tons of mixed silicates, carbonates, and oxides are on the dump of the large pit.

The area is heavily timbered and quite brushy with few exposures. The country rock is of the metasedimentary Applegate series mentioned by Wells*.

Lack of exposures either man-made or natural prohibit a thoroughly comprehensive report at this time.

The prospect was visited as a part of the program to examine the mineral resources of the Illinois Valley and Southwestern Oregon.

Location and Accessibility

The claims lie on the western slope of the ridge formed at the confluence of Dunn Creek and Poker Creek in portions of sections 1 and 12, T18N, R5E, and in section 7, T18N, R6E, Humboldt Meridian, Del Norte County, Calfiornia, about two miles south of the Oregon-California boundary. (Fig. 1) They may be reached by

*Wells, Francis G., "Preliminary Description of the Kerby Quadrangle, Oregon", State of Oregon, Department of Geology and Mineral Industries. Bulletin No. 40, 1949.

following the Happy Camp road from O'Brien to Takilma and then the Illinois Valley road to Deers Ranch. A limited access right of way has been purchased through the property belonging to the ranch. Right of way has been obtained through the Siskiyou National Forest along Dunn Creek to the deposit. Work on the road was started this fall, (1951), and about two miles were roughed in. It will be about four miles long when complete.

O'Brien is about 12 miles from the deposit, 40 miles on paved road from the rail head at Grants Pass, Oregon and 50 miles from the northern California seaport of Crescent City.

History and Production

The property was originally located by a Mr. Sangston and Mr. Charles T. Morris, one of the present owners, and relocated by the present company in 1948. Very little work was done previous to 1948. No ore has been shipped. Some of the ground along Dunn Creek had been located as a placer claim with some gold producttion.

Physical Features and Climate

The topography of the area is mountainous with precipitous slopes. Most of the area is quite heavily timbered and brushy. Buck brush predominates along the serpentine ridges.

Dunn and Poker Creeks are swift all-year streams, although very low in late summer and very apt to flood under the usual precipitation of over 50 inches of rain, most of which falls during the five winter months. The summers are warm and dry. Winters are cool and wet. The mean annual temperature is near 52 degrees. Snow is not unusual but is not a detriment.

Labor Supply and Living Conditions

The labor supply is variable. Logging and milling are the principal industries, but are seasonal. Competition for labor during the summer is brisk with the attendent high cost. Winter

labor is plentiful. Wages are high with common labor being paid from $1.50 to $1.60 per hour. Few skilled miners are to be found although many loggers and mill-hands are snipers and pocket hunters when unemployed and have a rudimentary knowledge of mining methods.

Living conditions are climatically good but relatively expensive. Accomodations could probably be found in Takilma, (pop. about 75), but Cave Junction is the nearest town of any size, (pop. about 750).

Property and Ownership

The property consists of six lode claims and two placer claims held by location. The placer claims are held to provide access along the creek to the rest of the property. The claims are owned by C.M.S. Strategic Metals, an Oregon corporation of 8000 S.E. Foster Road, Portland, Oregon.

General Geology

The deposit occurs in the Applegate group of metasedimentary rocks in the Triassic(?) system, and consists principally of chert, argillite, quartzite, and conglomerate with lentils of marble. The chert is dull light gray to a darker gray and contains remnants of microscopic radiolaria. Interbedded with the chert and limestone are the clayey argillites.* Green to black serpentine forms a ridge a short distance north of the deposit.

Description of the Deposit

The deposit consists of several steeply dipping beds ranging from a few inches to six or eight feet in thickness. The bed exposed in the largest cut is traceable for about 45 feet. They are parallel to the bedding of the surrounding rock, i.e., strike N30°E and dip 53°E. The footwall is clayey argillite and the hanging wall is gray chert.

*See footnote, page one.

Description of the Deposit, cont.

The depth to which oxidation has extended is not readily apparent in the main cut. Some primary rhodonite is in place near the floor and several tons are on the dump. This would suggest a relatively shallow oxidized zone.

Description of the Ore

The ore consists of the primary manganese minerals rhodonite and rhodochrosite and their oxidation products, pyrolusite and psilomelane. The owners report that a petrographic examination of the pink minerals show the dominating mineral to be rhodochrosite with particles of rhodonite desiminated through it. A gray variety of rhodochrosite is also reported.

Much of the material exposed is the hard, black psilomelane. Pyrolusite is found as a coating and in small cavities and crevices in the psilomelane. The occurrences are small, usually on the order of an inch or so long and of varying thickness. The largest cavity contained about 50 cubic inches of pyrolusite. The rhodochrosite(?) usually has a black coating and lacy lines of oxide running through the salmon pink.

Sampling and results

Sample 159-3 was a general sample of the Black Beauty cut and shows 16.6% manganese. 158-7 was taken fn manganiferous chert in the pit 450 feet downhill from the Black Beauty. This shows only 3.0% manganese.

Samples 168-8, -10, -11 were two inch channels cut across the face of the exposure in the Black Beauty. They contain respectively 16.6%, 19.2%, and 18.5% manganese.

Sample 163-14 was a selected piece of high grade from the Lower cut and assayed 41.7%.

Marble and Rhodonite, cont.

The preceding figures presumably include the Mn. ions in the rhodonite and wouldn't be available in a commercial metallurgical process.

Conclusions

The oxidized zones in this type of deposit are seldom very deep, and since rhodonite is not a commercial source of manganese, the oxide zone will contain the exploitable ore. (Several pieces of the pink mineral were boiled in acid for about six hours with no visible disintergration. Some effervescence in cracks and interstices was probably due to calcite or marble, both of which are present to some degree. No gray rhodocrosite was identified.)

While the ore in the oxide zone is of good grade it is doubtful that this deposit is extensive.

Recommendations

The deposit should be explored along the strike of the major bed to determine the length, and depth of oxidation. This should be done before expending time and money on access roads.

6-303
(March 1947)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

No.

-(COPY)-

Report to Mr.

Chemical Laboratory Report

Date received

Date reported

Serial No.	DESCRIPTION	Lot No.		Fe	SiO_2	Mn							
25228	C.M.S. Strategic Metals 152-6	Proj 516		2.18	52.7	16.6							
25234	" " 150-7	"		33.7	29.4	3.5							
25355													
25356	" " 163-9	"				10.6							
25357													
25356	" " 163-10	"				33.2							
25357	" " 163-11	"				32.3							
25358	" " 163-12	"				41.7							

U. S. GOVERNMENT PRINTING OFFICE 10-33353-3

Signed

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. D. M. A. 2238
Metal or Mineral
Date Received 11-20-51
Amount $
Participation (Government %)

C. M. S. Strategic Metals Inc
8000 S. E. Foster Rd.
Portland 6, Ore.

Name and address of applicant

Date Nov. 1, 1951

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

DMA Docket Number (if available) _____

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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.

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C. M. S. Strategic Metals Inc.
(Name of company)

By A. B. Christopher
(Signature of authorized official)

Nov. 1, 1951
(Date)

Sec. Treas.
(Title)

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

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. D. MEA. 2238

Date received 11-20-51

C. M. S. Strategic Metals Inc.
8000 S. E. Foster Rd.
Portland, 6, Ore.

Name and address of applicant

Date Nov. 1, 1951

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   - ☐ Lessee.
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   (*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.

DEFENSE MINERALS ADMINISTRATION WASHINGTON NOV 27 1951

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Ray O. Shurtliff Portland, Ore.	Pres. D.	none		125000			
Charles T. Morris Portland, Ore.	V. Pres. D.	none		166667			
H. B. Christopher Portland, Ore.	Sec. Treas. D.	none		208333			
A. B. Christopher Portland, Ore.				30000			
Archie Conleee Portland, Ore				27500			
Henry Merhar Portland, Ore.				17500			
Raliegh Freeman Portland, Ore				12500			
	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	$100,000.	$70,000	$ 10¢	700,000	
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.

C. M. S. Strategic Metals Inc.
(Name of company)

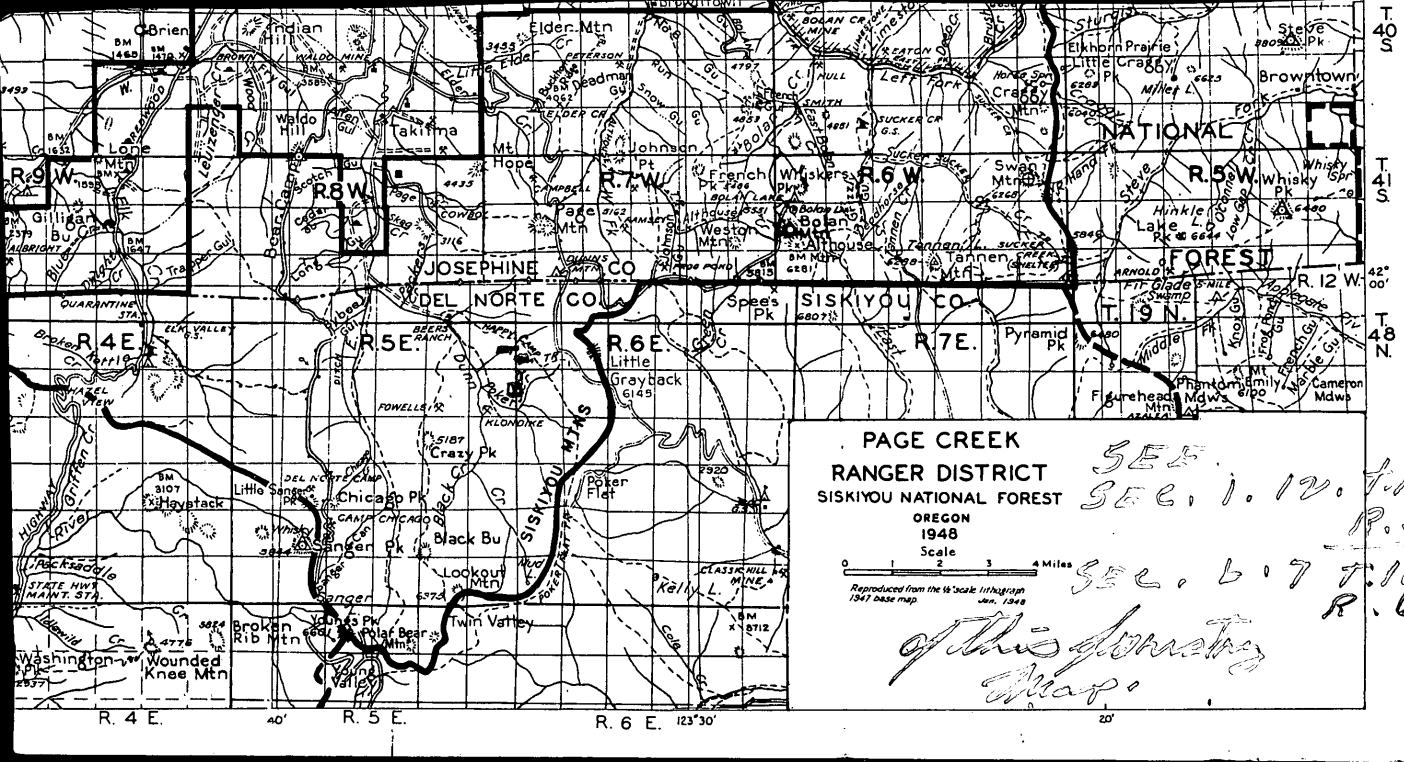
By H. B. Smith
(Signature of authorized official)

Nov. 1, 1951
(Date)

Sec. Treas.
(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



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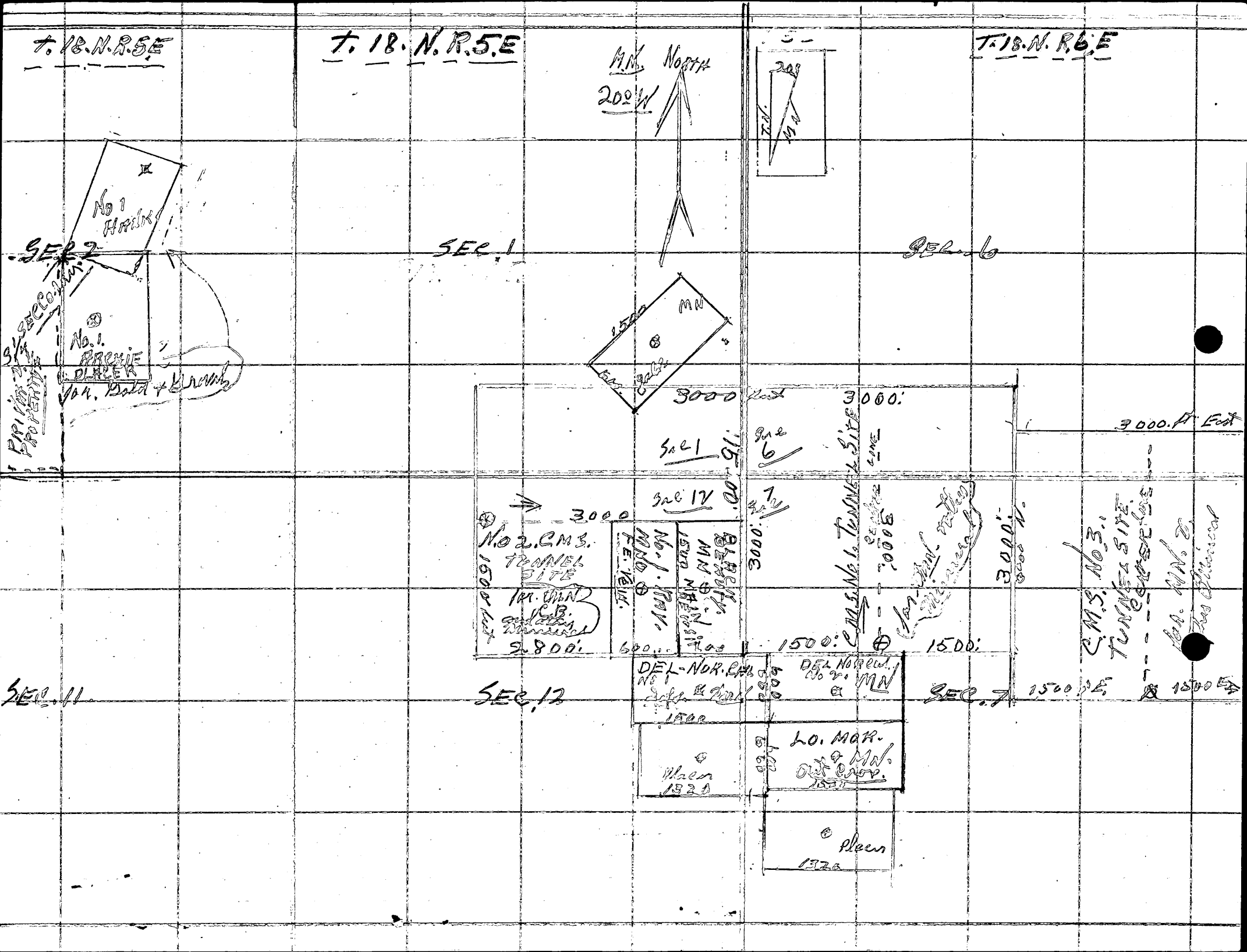
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No. 2. C.M.S. Tunnel Site
Joh. Mun. C.B.
No. 1. Pal. MN
F.E. Vein
Black Hawk MN
No. 1. C.M.S. Tunnel Site
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C.M.S. No. 3. Tunnel Site
Joh. MN. C.
Jas Quinn
1500 E.
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SEC. 12
SEC. 7
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DEL-NOR. C.M.S. No. 2. MN
Lo. Mar. MN.
Out Crop.
Placer 1320
Placer 1320

Form MF-103
(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. D. MEA. 223 P

Date received 11-20-51

C. M. S. Strategic Metals Inc.
8000 S. E. Foster Rd.
Portland 6, Ore.

Name and address of applicant

Date Nov. 1, 1951

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:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production none
   If not in production or operation, estimated date when production will begin Dec. 1, 1951
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.

DEFENSE MINERALS ADMINISTRATION WASHINGTON NOV 23 1951

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Ray O. Shurtliff Portland, ore.	Pres. D.	none		125,000			
Charles E. Morris Portland, Ore.	V. Pres. D.	none		166667			
H. B. Christopher Portland, Ore.	Sec. Treas.	D. none		208333			
A. B. Christopher Portland, Ore.				30000			
Archie Conlee Portland, Ore.				27500			
Henry Merhar Portland, Ore.				17500			
Raliegh Freeman Portland, Ore.				12500			
	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	$100,000.	$70,000	$10¢	700,000	
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.)	none				
2. Quantity of product processed (specify unit of measure and type of process)	none				
3. Quantity and grade of product sold or shipped (specify units of measure)	none				

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. Expect to be in prodiction shortly

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.

C. M. S. Strategic Metals Inc.,
(Name of company)

By H. B. Christopher
(Signature of authorized official)

Nov. 1, 1951
(Date)

Sec. Treas.
(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

Form MF-103
(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. DMA-2238

Date received 11-20-51

C. M. S. Strategic Metals Inc.
8000 S. E. Foster Rd.
Portland 6, Ore.

Name and address of applicant

Date Nov. 1, 1951

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 none
   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.

DEFENSE MINERALS ADMINISTRATION WASH. 25, D.C.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
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Charles T. Morris Portland, Ore.	V. Pres. D.	none		166667			
H. B. Christopher Portland, Ore.	Sec Treas. D.	none		208333			
A. B. Christopher Portland, Ore				30000			
Archie Conlee Portland, Ore.				27500			
Henry Merhar Portland, Ore.				17500			
Raliegh Freeman Portland, Ore.				12500			
	Total		x x x x x			x x x x x	x x x x x

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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)
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*Indicate period covered.

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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.

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(*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.

C. M. S. Strategic Metals Inc.
(Name of company)

By [signature]
(Signature of authorized official)

Nov. 1, 1951
(Date)

Sec. Treas.
(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

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. D. MEA. 2238
Metal or Mineral
Date Received 11-20-51
Amount $
Participation (Government %)

C. M. S. Strategic Metals Inc.
8000 S. E. Foster Rd.
Portland 6, Ore.

Name and address of applicant

Date Nov. 1, 1951

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? Manganese

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

C. M. S. Strategic Metals Inc. (Name of company)

By H. B. Christopher (Signature of authorized official)

Nov. 1, 1951 (Date)

Sec. Treas. (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

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. D. MEA. 2238
Metal or Mineral
Date Received 11-20-51
Amount $
Participation (Government %)

C. M. S. Strategic Metals Inc.
8000 S. E. Foster Rd.
Portland 6, Ore.

Name and address of applicant

Date Nov. 1, 1951

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? Manganese

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

C. M. S. Strategic Metals Inc.
(Name of company)

By H B Christopher
(Signature of authorized official)

Nov. 1, 1951
(Date)

Sec. Treas.
(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

Julien Wetherbee

MAR 31 1952

Mr. H. B. Christopher, Sec.-Treas.
G. M. S. Strategic Metals, Inc.
8000 S. E. Foster Road
Portland 6, Oregon

Re: Docket No. IM-4 [illegible] - Manganese
Black Beauty No. 1, et al. claims
Del Norte County, California

Dear Mr. Christopher:

Your application for exploration project assistance and other data available to us in Washington have been carefully reviewed. The information 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 calling the property to our attention.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:ls
3/27/52

cc: Docket
Admn. Pending File
Operating Committee
Field Team, Region 3
G. C. Selfridge
N. B. Melcher, USBM
M. D. Crittenden, USGS

Acting Administrator, D.M.E.A. March 27, 1952

Iron and Ferro-Alloy Division, D.M.E.A.

Denial of exploration project in the amount of $30,000
Docket No. DMEA 2208X - Manganese
C. M. S. Strategic Metals, Inc.
Black Beauty No. 1, et al., Claims
Del Norte County, California

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

(1) The deposit is typical of those found in the Klamath Mountains of northern California. The primary manganese mineralization consists of rhodochrosite and rhodonite that have been superficially oxidized, forming shallow deposits of pyrolusite and psilomelane. The deposits are neither large enough nor oxidized enough to produce more than a few tons of ore. Total production from the entire area has been less than 200 tons of ore.

(2) The Commodity Divisions of both the United States Geological Survey and the United States Bureau of Mines, and the Field Team recommend denial.

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

GCSelfridge:ls
3/27/52

cc: Docket
Admn. Reading File
Operating Committee
G. C. Selfridge

FEB 28 1952

Mr. H. E. Christopher
Secretary-Treasurer
S. N. S. Strategic Metals, Inc.
8000 S. E. Foster Road
Portland 6, Oregon

Re: Docket No. [illegible]
(Sanpoche)
Sol Norte County, Calif.

Dear Mr. Christopher:

Your letters of December 20 and 26, 1951 have been received and we thank you for furnishing the additional information in connection with your application. However, it is felt that more information is needed from the field team and your application is therefore being referred to Mr. H. C. Miller, Executive Officer, DMA Field Team, Region III, San Francisco, California.

Upon receipt of the additional information we will advise you of our findings with respect to your application.

C. O. Mittendorf

Acting Administrator

FEJohnson/hb

Copy to: Adm. Reading File
Docket
N. B. Belcher
M. D. Crittenden
Field Team, Region III
H. C. Selfridge
✓G. G. Gentry
F. E. Johnson

FEB 28 1952

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

Re: Docket No. IMFA 2238X - Manganese Mining Claims in Sections 1, 2 and 12, T. 18 N., R. 5 E.; Sections 6 and 7, T. 18 N., R. 6 E.
Del Norte County, California

Dear Mr. Miller:

Enclosed herewith please find copies of memoranda from Mr. Melcher, Mr. Crittenden, the U. S. Bureau of Mines and copies of additional pertinent data, all relative to the subject docket.

You will note that a report by Mr. Henry Becker, dated June 11, 1951, states that all discovery shafts, etc. had caved and very little could be seen of the extent of the property.

The applicant states that he has an open cut on the property 40 feet long by 8 feet high, with manganese exposed for a length of 30 feet and width of 4 feet in the floor, but he does not state the grade of the ore.

We would like to have you review this application and the attached data and advise us whether or not you concur with the Commodity Branches that the project offers very little chance for a significant mineral discovery to be made.

While Mr. Crittenden believes that the evidence as submitted does not justify a routine field referral or another trip to the deposit,

we feel that this matter should be determined by your office after due consideration of all the information pertaining to the project.

May we hear from you at your earliest convenience?

Sincerely yours,

(signed) FRANK E. JOHNSON

Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures

Approved:

J. H. Hedges

Member, Bureau of Mines

J. P. Thayer

Member, Geological Survey

GGGentry'lm
2/20/52

cc: Admn. Reading File
Docket
N. B. Melcher
M. D. Crittenden
Field Team Reg. III
G. C. Selfridge
G. G. Gentry

George Selfridge, DMEA

January 5, 1952

Through N. B. Melcher

M. D. Crittenden

DMEA 2238 Manganese - C.M.S. Strategic Minerals Inc.

With further reference to my memorandum of December 29, the attached report from the Field Team, Region III, supplies the information originally requested. Moreover it verifies my tentative appraisal that the prospect for a significant discovery in this area is poor. It is suggested, therefore, that the application be rejected without further consideration.

MDCrittenden:gt

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

January 3, 1952

Memorandum

To: George C. Selfridge

From: Norwood B. Melcher

Subject: DMEA 2238 - C. M. S. Strategic Minerals, Inc.

The Bureau of Mines has no information on this deposit other than that presented by Mr. Crittenden. Consequently, it is recommended that the application be rejected providing the Field Team will concur.

Norwood B. Melcher

IN REPLY REFER TO:

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

George S. Selfridge

December 29, 1951

Max D. Crittenden, Jr.,

DMSA-2238 Manganese - C.M.S. Strategic Minerals Inc.

The applicant proposes to spend $30,000 to explore the Black Beauty No. 1 claim in sec. 1, 2, and 12, T. 18 N. R. 5 E., and sec. 6 and 7, T. 18 N., R. 6 E., Del Norte County, California.

The Geological Survey has no first hand information concerning this deposit, however, it is possible to draw some general conclusions from the information submitted by the applicant, and from the geological conditions and the type of deposits known to exist in that area. The company reports that a 50 lb. sample ran 30.2 percent MnO_2 which is equivalent to only 19 percent Mn. The Bureau of Mines reports the presence of rhodochrosite and rhodonite. All of this serves to confirm the probability that the mine is typical of those in the Klameath Mountains of northern California. All the deposits that have been studied are formed by the near-surface oxidation of rhodonite and-or rhodochrosite. No such deposit has proved large enough or sufficiently oxidized to produce more than a few tons; the total production for the area is less than 200 tons. The only possible market for ores of this low grade is the plant in Salem, Oregon.

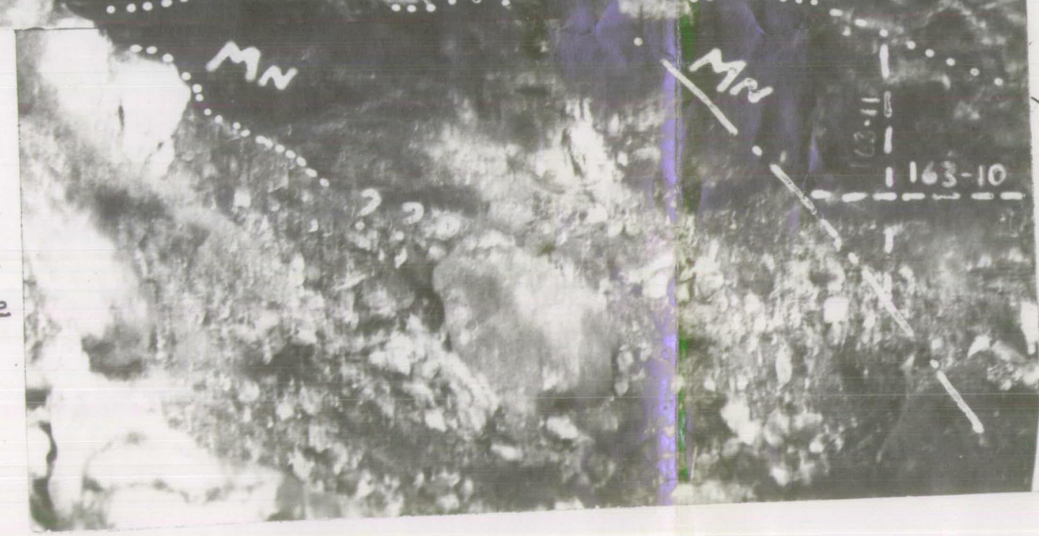
There appears to be little or no prospect that the deposit in question can produce ore that will meet government specifications, and the prospects for a significant discovery appear to be poor. It is recommended therefore, that the application be rejected provisionally, subject to the concurrence of the Field Team. I do not believe the evidence available warrants a routine Field Referral, or another trip to the deposit and this should be indicated in the letter to the Field Team. Nevertheless it would be advisable for them to submit a brief memorandum including the facts obtained during the earlier examinations, and the sample data or metallurgical studies.

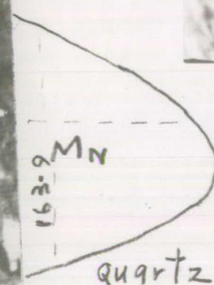
Max D. Crittenden

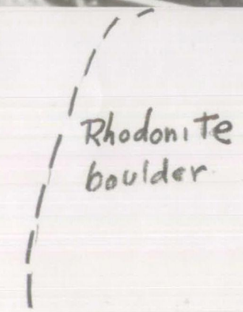
Max. D. Crittenden:bbk
G 12/20/51

Fig 2
Black Beauty Cut
looking South.
The boulder marked
is the rhodonite boulder
pictured in the projection
→

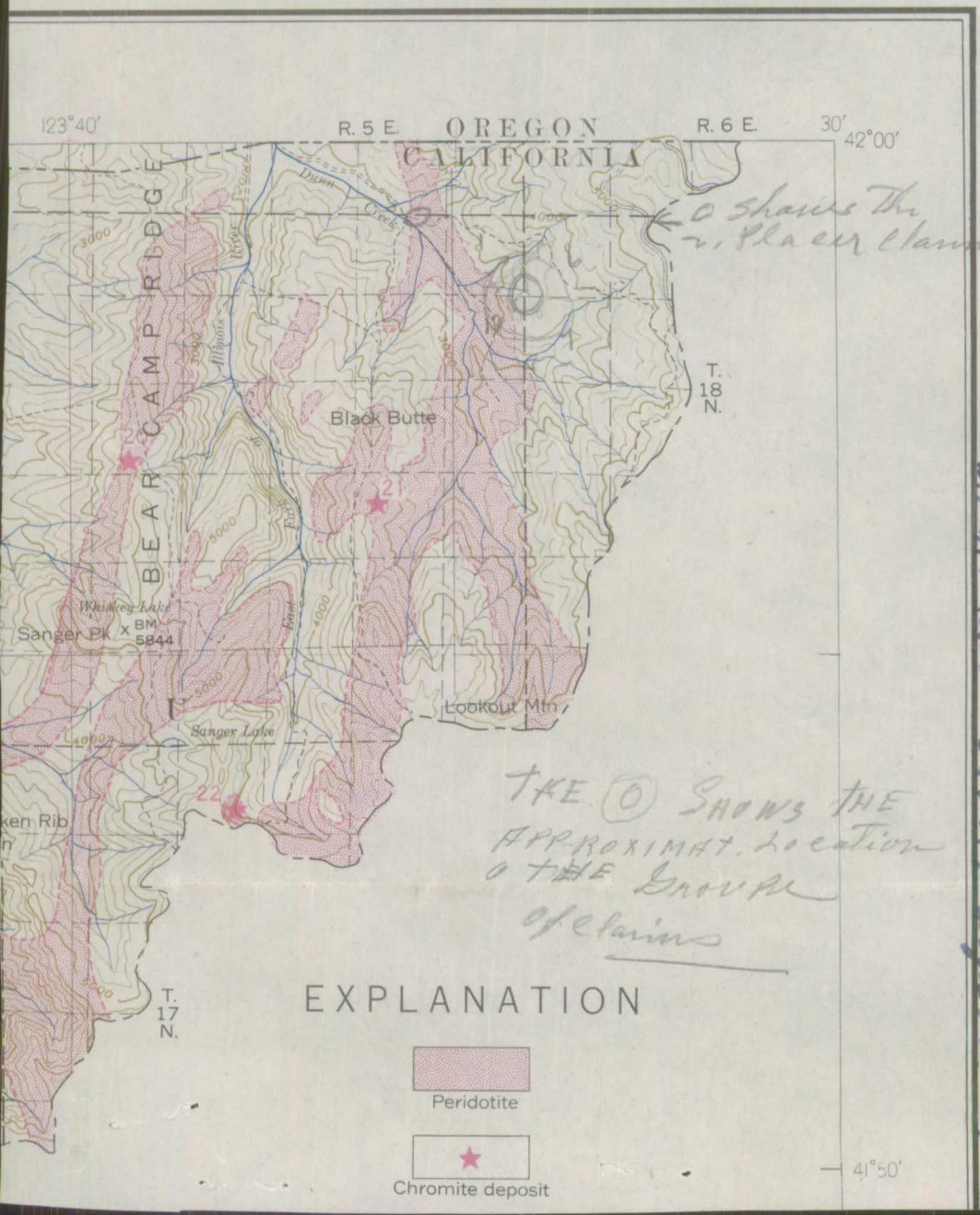
These pictures were taken by the owners. Since then this cut has sluffed to the point indicated by dashed line.







BLACK Beauty Cut
Fig 1.
looking EAST


123°40'
R. 5 E.
OREGON
CALIFORNIA
R. 6 E.
30'
42°00'
BEAR CAMP RIDGE
Dunn Creek
Illinois River
Black Butte
T. 18 N.
Whiskey Lake
Sanger Pk.
BM 5844
Sanger Lake
Lookout Mtn.
ken Rib
T. 17 N.
41°50'
EXPLANATION
Peridotite
Chromite deposit
O shows the approximate location of placer claims
THE O SHOWS THE APPROXIMAT. LOCATION OF THE GROUPE of claims
O.M.A. 2238 - C.M.S. Statistics Institute