DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2394

DO NOT DETACH THIS SLIP

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

This document has been recorded as

EXPLORATION PROJECT

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

Routing Slip

COPIES TO USGS, USBM, REGION III.

To: CODE 400, RM. 3538 Date _____

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DO NOT DETACH

CONTROLLED DOCUMENT

Code 400

File 394

JUL 31 1952

Hon. William F. Knowland
United States Senate
Washington 25, D. C.

My dear Senator Knowland:

A copy of your letter of July 11, 1952, to Mr. James Boyd, former Director of the Bureau of Mines, and of an attachment dated June 13, 1952, by Mr. Gerald C. Burke, have been forwarded to this Administration for further comment.

In January and February of this year Mr. Burke filed two applications for exploration assistance in a search for nickel on properties situated in Calaveras County, California. The applications were incomplete and several letters were written to Mr. Burke requesting additional information in accordance with the rules and regulations under which the Defense Minerals Exploration Administration operates. Mr. Burke furnished part of the information and, in further correspondence, he requested that his applications be withdrawn. The information requested from Mr. Burke was in keeping with the application form and, in part, was to substantiate certain statements made by him.

As mentioned in his letter, the nickel occurs in serpentine, a type of rock which almost always contains a small amount of nickel. The average nickel content of rock of this type the world over is approximately 0.03 percent. The nickel usually occurs in the form of silicates and no method has been developed for extracting nickel from these low grade rocks on an economic basis. Mr. Burke claims that his serpentine area averages from .3 to .5 percent nickel. If this amount is present and occurs as silicate, it would be too low grade to work, as he has already been told by the representatives of firms interested in nickel.

Mr. Burke did not mention in his application that the nickel occurs with magnetite, as he advises you in his letter. If this is true and there is an appreciable amount of magnetite in the serpentine, then it might be possible to concentrate the nickel-bearing magnetite and later extract the nickel from the concentrate, if necessary.

We would be glad to give further consideration to Mr. Burke's applications if he will submit information regarding the test whereby it was determined that the nickel occurs in the magnetite or if he will submit samples of nickel-bearing magnetite concentrates.

If we can be of further assistance in this matter, please so inform us.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

TLChapman:GCSelfridge:ls
7/30/52

cc: Docket 2394
Admn. Reading File
Field Team, Reg. 3
G. C. Selfridge
H. W. Davis, USBM
T. [illegible]. Thayer, USGS

400

2394

MAR 31 1952

Closed file

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

Re: Docket No. M-A 2394 - Nickel
Burke One Claim
Calaveras County, California

Dear Mr. Burke:

In accordance with the advice contained in your letter of March 26, 1952, we have removed your application from the active file and now consider the docket closed.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

GCSelfridge:ls
3/28/52

cc: Docket
Admn. Reading File
Field Team, Region 3
G. C. Selfridge
H. W. Davis, USBM
S. P. Thayer, USGS

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

Re: Docket No. DMEA 239-X - Nickel
Lode Claim in Sec. 6; T. 4 N.;
R. 11 E.; M.D.M.
Calaveras County, California

Dear Mr. Burke:

Your letter of March 11, 1951, with maps, has been received.

From your application and the above noted letter, we are unable to definitely ascertain the geologic background of the area in question or precisely what objective you expect to attain by your proposed drilling program.

Your attention is called to form MR-103, item 2(b) wherein you are to furnish a statement as to "the type of ore deposit" and your "reasons for expecting to find commercial ore bodies". Please furnish us with these statements.

Sincerely yours,

O. C. Selfridge, Chief
Iron and Ferro-Alloy Division
Defense Minerals Exploration
Administration

QLBrewer:lm
3/19/52

cc: Admn. Reading File
Docket
H. W. Davis, DMEM
T. P. Thayer, USGS
Field Team Reg. III
O. C. Selfridge
Q. L. Brewer

FILE COPY
Surname:

Davis
Rodway

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

March 14, 1952

Memorandum

To: George C. Selfridge, Defense Minerals Exploration Administration

From: H. W. Davis, Bureau of Mines

Subject: DMEA 2394 - Nickel. George C. Burke.

The applicant has submitted insufficient information on which to base an opinion concerning an exploration loan of $5,000. However, as the probability of the deposit making significant contributions toward the Nation's supplies of nickel and copper has not been demonstrated from the sketchy information furnished, the proposal, in my opinion, is not justified.

H. W. Davis

HWDavis:cb

Copy to: Ferrous Metals
T. P. Thayer
H. W. Davis
Files

IN REPLY REFER TO:

G-MD-TPT

400's 2

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

March 10, 1952

Memorandum

To: George C. Selfridge

From: T. P. Thayer

Subject: DMEA 2394 - Nickel. Gerald C. Burke

The area indicated appears to be on a belt of serpentine, which is known to the Geological Survey from chromite investigations and geologic mapping of the Mother Lode gold belt. All serpentine contains nickel, which may be concentrated in residual soil. In the absence of any information as to occurrence, it must be assumed that the nickel values reported are in small specimens of hydrothermal sulfides, or in soil derived from serpentine. The values are too high to be representative of bulk serpentine, although the tonnages quoted cannot apply to anything else.

The applicant should be asked to supply analytical data, descriptions of samples analyzed, and state his proposal. If a few samples could be obtained, it would be all to the good.

A field referral definitely is not in order yet, but an abstract of the correspondence might be sent to Region III for comment.

TPThayer:gt

file

MAR 5 1952

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

Re: Docket No. DMRA 2394X - Nickel
Jade Claim in Sec. 6; T. 4 N.; R. 11 E.
Calaveras County, California

Dear Mr. Burke:

A review of your new application with reference to the subject docket reveals that we will require considerable more information than you have submitted. Will you, therefore, please forward the following data:

1. A plan map showing the vein or ore zone on your claim and the location of the proposed drill holes and explain the purpose of said drill holes.

2. A cross section of the 12-foot shaft, showing the vein which you state contains 1.6 per cent copper.

3. Please show location of samples which you report containing from 0.25 per cent to 0.5 per cent nickel, and if possible, submit copies of the analyst's report.

4. Submit details of your cost estimate of the proposed diamond drilling.

Upon receipt of the above information, we will be able to give your application further consideration.

Sincerely yours,

GOGentry'lm
3/4/52

George C. Selfridge

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

cc: Admn. Pending File
Docket
H. W. Davis, USBM
T. P. Thayer, USGS
Field Term Reg. III
G. C. Selfridge
G. O. Gentry

400

FILE COPY
SURNAME:

Selfridge.

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

MAR 31 1952

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

Re: Docket No. DMEA 2394X - Nickel
Burke One Claim
Calaveras County, California

Dear Mr. Burke:

In accordance with the advice contained in your letter of March 26, 1952, we have removed your application from the active file and now consider the docket closed.

Sincerely yours,

C. O. Mittendorf (for)

Acting Administrator
Defense Minerals Exploration
Administration

3-31-52

GCSelfridge:ls
3/28/52

cc: Docket
Admn. Reading File
Field Team, Region 3
G. C. Selfridge
H. W. Davis, USBM
T. P. Thayer, USGS

209 Old Mint Building
San Francisco, California

March 26, 1952

Mr. G.C. Selfridge
Chief Iron and Ferro-Alloys Division
Defense Minerals Administration
U.S. Department of the Interior
Washington 25, D.C.

Dear Mr. Selfridge:

Please cancel my application for assistance Docket No. D.M.E.

2394 X- Nickel, Calaveras County, California.

Yours truly, Gerald C. Burke.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 27 1952

2321

FILE COPY
SURNAME:

Brewer
Selfridge
Chief

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

MAP

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

Re: Docket No. DMMA 2394X - Nickel
Lode Claim in Sec. 6; T. 4 N.;
R. 11 E.; M.D.M.
Calaveras County, California

Dear Mr. Burke:

Your letter of March 11, 1951, with maps, has been received.

From your application and the above noted letter, we are unable to definitely ascertain the geologic background of the area in question or precisely what objective you expect to attain by your proposed drilling program.

Your attention is called to form MF-103, item 2(b) wherein you are to furnish a statement as to "the type of ore deposit" and your "reasons for expecting to find commercial ore bodies". Please furnish us with these statements.

Sincerely yours,

cc
3/20

George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division
Defense Minerals Exploration
Administration

QLBrewer'lm
3/19/52

cc: Admn. Reading File
Docket
H. W. Davis, USBM
T. P. Thayer, USGS
Field Team Reg. III
G. C. Selfridge
Q. L. Brewer

letter to opp. for ans to 2(b)
wait for his ans before
drafting. J.B. 3/18

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

March 14, 1952

Memorandum

To: George C. Selfridge, Defense Minerals Exploration Administration

From: H. W. Davis, Bureau of Mines

Subject: DMEA 2394 - Nickel. George C. Burke.

The applicant has submitted insufficient information on which to base an opinion concerning an exploration loan of $5,000. However, as the probability of the deposit making significant contributions toward the Nation's supplies of nickel and copper has not been demonstrated from the sketchy information furnished, the proposal, in my opinion, is not justified.

H. W. Davis

H. W. Davis

IN REPLY REFER TO:

G-MD-TPT

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

March 10, 1952

Memorandum

To: George C. Selfridge

From: T. P. Thayer Thayer

Subject: DMEA 2394 - Nickel. Gerald C. Burke

The area indicated appears to be on a belt of serpentine, which is known to the Geological Survey from chromite investigations and geologic mapping of the Mother Lode gold belt. All serpentine contains nickel, which may be concentrated in residual soil. In the absence of any information as to occurrence, it must be assumed that the nickel values reported are in small specimens of hydrothermal sulfides, or in soil derived from serpentine. The values are too high to be representative of bulk serpentine, although the tonnages quoted cannot apply to anything else.

The applicant should be asked to supply analytical data, descriptions of samples analyzed, and state his proposal. If a few samples could be obtained, it would be all to the good.

A field referral definitely is not in order yet, but an abstract of the correspondence might be sent to Region III for comment.

1 copy in 400 file

IN REPLY REFER TO:

G-ND-TPT

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

March 10, 1952

Memorandum

To: George C. Selfridge

From: T. P. Thayer

Subject: DMEA 2394 - Nickel. Gerald C. Burke

The area indicated appears to be on a belt of serpentine, which is known to the Geological Survey from chromite investigations and geologic mapping of the Mother Lode gold belt. All serpentine contains nickel, which may be concentrated in residual soil. In the absence of any information as to occurrence, it must be assumed that the nickel values reported are in small specimens of hydrothermal sulfides, or in soil derived from serpentine. The values are too high to be representative of bulk serpentine, although the tonnages quoted cannot apply to anything else.

The applicant should be asked to supply analytical data, descriptions of samples analyzed, and state his proposal. If a few samples could be obtained, it would be all to the good.

A field referral definitely is not in order yet, but an abstract of the correspondence might be sent to Region III for comment.

TPThayer:gt

209 Old Mint Building
San Francisco, California

March 11, 1952

Docket No. DMEA 2394X,

Mr. G.C. Selfridge
Chief Iron and Ferro-Alloys Division
U.S Department of the Interior
Defense Minerals Administration
Washington, D.C.

Dear Mr. Selfridge:

In answer to your letter of March 5th, I am submitting the material requested. If anything more is needed I shall send it along.

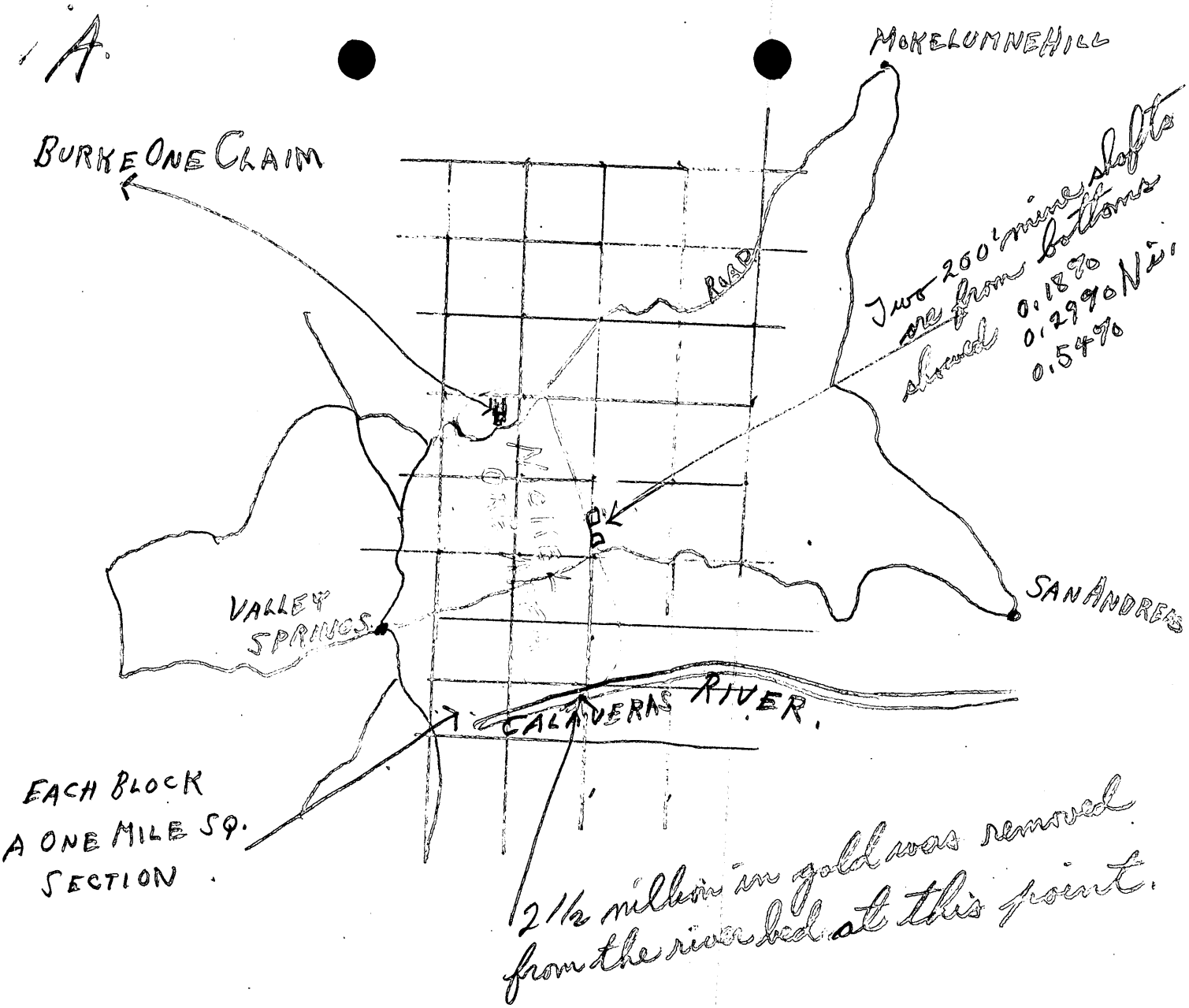
Yours truly,

Gerald C. Beeke

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 14 1952

See last page of this letter

A.

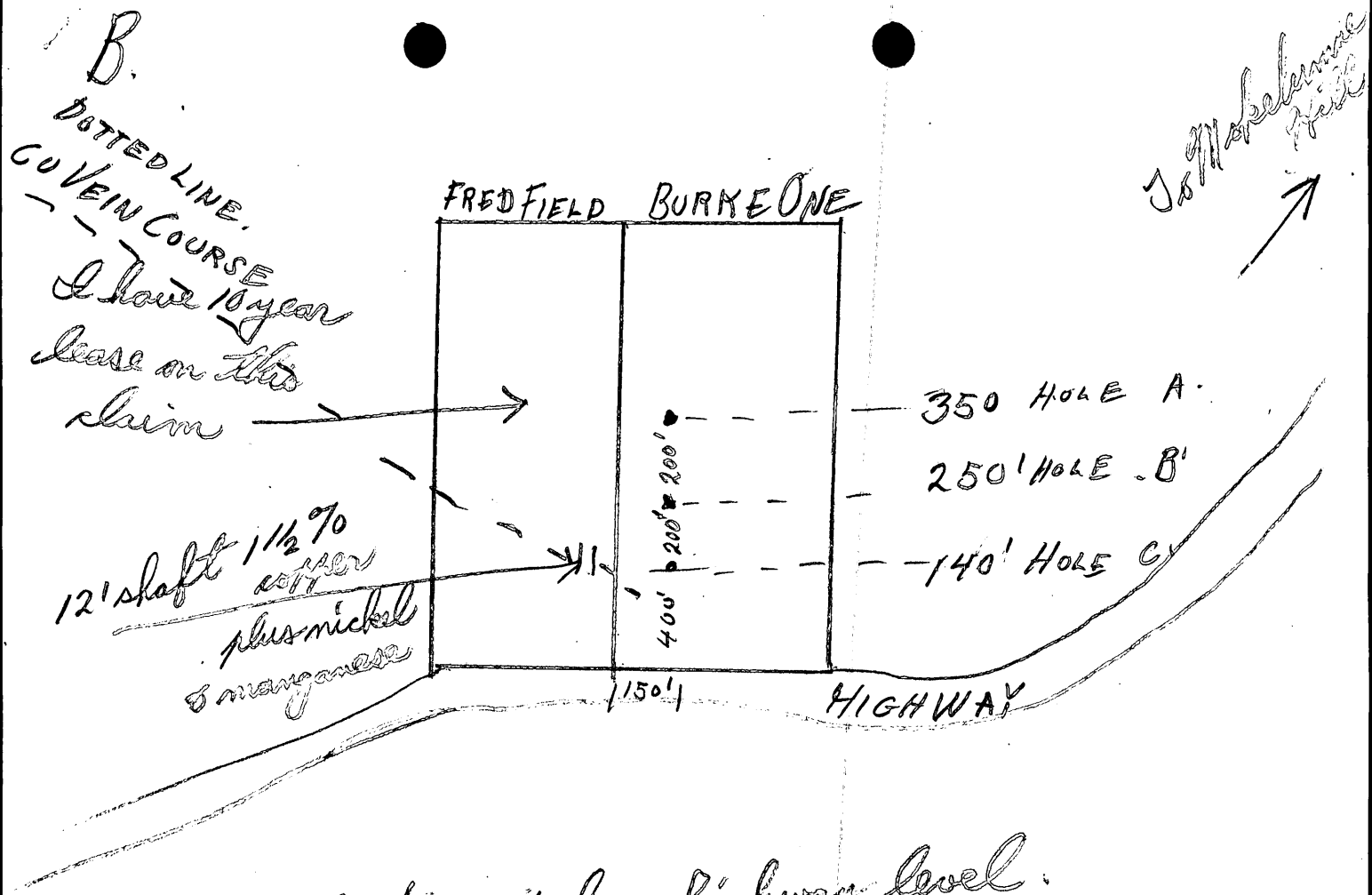


I have about 90% of land in red lined area in claims and leases. Surface ore anywhere from this region will show nickel 0.25% to 0.5%. This area includes a chain a serpentine hills 350' to 700' high.

B.

DOTTED LINE. CU VEIN COURSE

I have 10 year lease on this claim



HOLE A about 350' above highway level.

B " 250' " " " "

C " 140' " " " "

To Valley Springs

To Sunshine

C.

I. The purpose of the drill holes is to follow the contour of the hill down to the highway level to see if any ore exists in the hill that bears values of one per cent or higher nickel. Also to see if some worthwhile copper ore is present.

2. The twelve foot vein seems to bear northeast to a point where it emerges on a ranch. I have not run this ranch sample as yet, but if it is the same vein, then this indicates that it is over a mile in length. I have a lease on this ranch.

3. One can get 0.25% to 0.50 % nickel content surface samples most anywhere on my claim and most anywhere on the hills that lie in this one by three mile area.

Fifty samples run by me give me my 0.25% to 0.50% values.

Two samples run by a local assayer gave 0.22% (He did not remove the iron from these samples when he ran them).

(This is Mark Hanna an assayer in the vicinity - ¢ PB)

Four samples run by the M.A. Hanna Co. assayer gave 0.10%, 0.27%, 0.29% and 0.37%. The 0.10% came from the Burke One from an area where I usually got 0.25% to 0.50% nickel ore. The 0.29% came from the middle of the area, or about one and a half miles distant; and the 0.37% one came from the south end of the area or about three miles distant. At this point I've gotten 0.42% ore.

4. The cost is based on a local drilling firm's estmate. They said they would drill about 740 feet at the site for a total cost of $ 5,000. I have a man that does work for me in the area. There is the possibility that I can rent or buy an outfit and so get more footage. I've called some firms and will keep trying.

MAR 5 1952

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

Re: Docket No. DMEA 2394X - Nickel
Lode Claim in Sec. 6; T. 4 N.; R. 11 E.
Calaveras County, California

Dear Mr. Burke:

A review of your new application with reference to the subject docket reveals that we will require considerable more information than you have submitted. Will you, therefore, please forward the following data:

1. A plan map showing the vein or ore zone on your claim and the location of the proposed drill holes and explain the purpose of said drill holes.

2. A cross section of the 12-foot shaft, showing the vein which you state contains 1.6 per cent copper.

3. Please show location of samples which you report containing from 0.25 per cent to 0.5 per cent nickel, and if possible, submit copies of the analyst's report.

4. Submit details of your cost estimate of the proposed diamond drilling.

Upon receipt of the above information, we will be able to give your application further consideration.

Sincerely yours,

George C. Selfridge

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

GGGentry'lm
3/4/52

cc: Admn. Reading File
Docket
H. W. Davis, USBM
T. P. Thayer, USGS
Field Team Reg. III
G. C. Selfridge
G. G. Gentry

FILE COPY
SURNAME:

Gentry
Selfridge

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

MAR 5 1952

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

Re: Docket No. DMEA 2394X - Nickel
Lode Claim in Sec. 6; T. 4 N.; R. 11 E.
Calaveras County, California

Dear Mr. Burke:

A review of your new application with reference to the subject docket reveals that we will require considerable more information than you have submitted. Will you, therefore, please forward the following data:

1. A plan map showing the vein or ore zone on your claim and the location of the proposed drill holes and explain the purpose of said drill holes.

2. A cross section of the 12-foot shaft, showing the vein which you state contains 1.6 per cent copper.

3. Please show location of samples which you report containing from 0.25 per cent to 0.5 per cent nickel, and if possible, submit copies of the analyst's report.

4. Submit details of your cost estimate of the proposed diamond drilling.

Upon receipt of the above information, we will be able to give your application further consideration.

GGGentry'lm
3/4/52

Sincerely yours,

S. L. 3/5/52

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

cc: Admn. Reading File
Docket
H. W. Davis, USBM
T. P. Thayer, USGS
Field Team Reg. III
G. C. Selfridge
G. G. Gentry

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2394
Metal or Mineral
Date Received 2-27-52
Amount $
Participation (Government %)

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California.

Name and address of applicant

Date 2/26,52.

FEB 27 1952

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

Gerald C. Burke
(Name of company)

By _____
(Signature of authorized official)

2/26/52
(Date)

_____
(Title)

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

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

1. Burke One, consists of the East half of the N.W. ¼ of the N.E. ¼ of Section 6, T. 4N., R. 11 E., Calaveras County, California. Lode Claim.

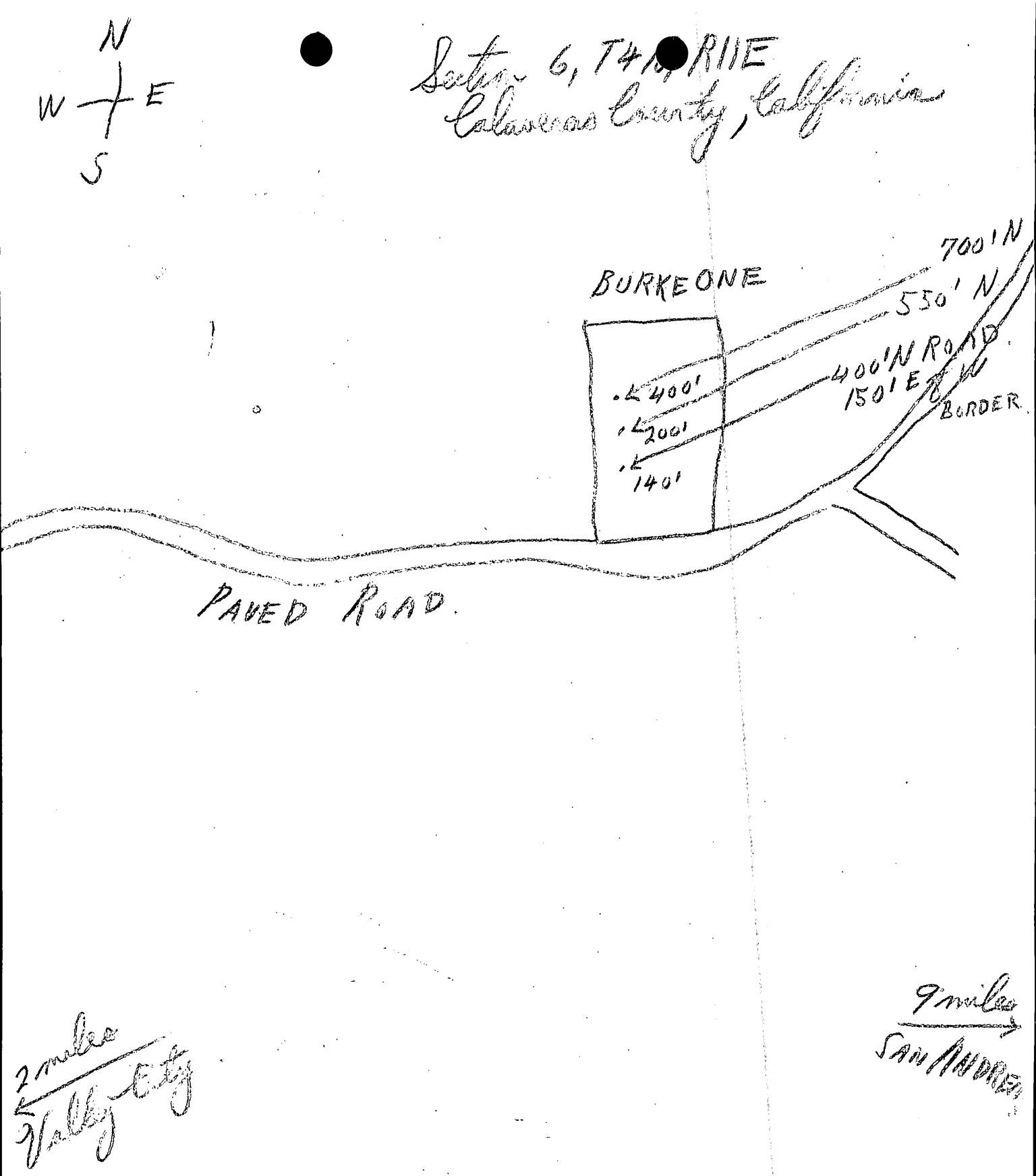
2. Nickel, possibly copper and cobalt.

A chain of hills consisting of serpentine approximately 400' high. This claim is on one of these hills. At the edge of this claim hill is a 12' shaft that exposes a vein containing 1.6 % copper. This copper is in a metamorphic rock.

8. Plan to diamond drill holes of 140',200' and 400' at a total cost of $ 5,000. Work should be completed within three months.

10. $ 500. Yes.

Section 6, T4N, R11E
Calaveras County, California



Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2394

Date received 2-27-52

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California.

Name and address of applicant

Date 2/26/52

FEB 27 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

Gerald C. Burke
(Name of company)

By _____
(Signature of authorized official)

2/26/59
(Date)

_____
(Title)

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

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

3. Three miles.
San Andreas, Calaveras County, California.
T. 4N., R. 11E., Section 6, The East half of the N.W. ¼ of the N.E. ¼ of Section 6.

4. No.

6. Six years prospecting experience. Seventeen as a contractor at Cleveland, O.

7. Area has been producing gold for over a hundred years. Copper, zinc are being mined at present.

This claim is at one end of an area that is one mile wide and three miles long. This area is of serpentine and bears nickel indicated by surface samples to run from 0.25 to 0.5 %. I estimate there to be three billion tons of nickel bearing ore in this region.

13. Paved highways, dirt roads and railroads both cross and border this area.

14. A river is at the South end. Two reservoirs are within a few miles and a spring is adjacent to this claim.

EXPLORATION

Subject: DMEA-2394
Re: Exploration Loan
February 27, 1952

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California

My dear Mr. Burke:

This will acknowledge receipt of your application dated February 26, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2394 and referred to the Iron and Ferro-Alloy Division.

Kindly refer to DMEA-2394 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Acting Administrative Officer

see also dmea 2321
7862

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2394

Date received 2-27-52

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California.

Name and address of applicant

Date 2/26/52

FEB 27 1952
Defense Minerals Administration
RECEIVED

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
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	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.

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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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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.

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(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:

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(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.

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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.

Gerald C. Burke
(Name of company)

By _____
(Signature of authorized official)

2/26/52
(Date)

_____
(Title)

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

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

3. Three miles.
San Andreas, Calaveras County, California.
T. 4N., R. 11E., Section 6, The East half of the N.W. ¼ of the N.E. ¼ of Section 6.
4. No.

6. Six years prospecting experience. Seventeen as a contrator at Cleveland, O.

7. Area has been producing gold for over a hundred years. Copper, zinc are being mined at present.

This claim is at one end of an area that is one mile wide and three miles long. This area is of serpentine and bears nickel indicated by surface samples to run from 0.25 to 0.8 %. I estimate there to be three billion tons of nickel bearing ore in this region.

13. Paved highways, dirt roads and railroads both cross and border this area.

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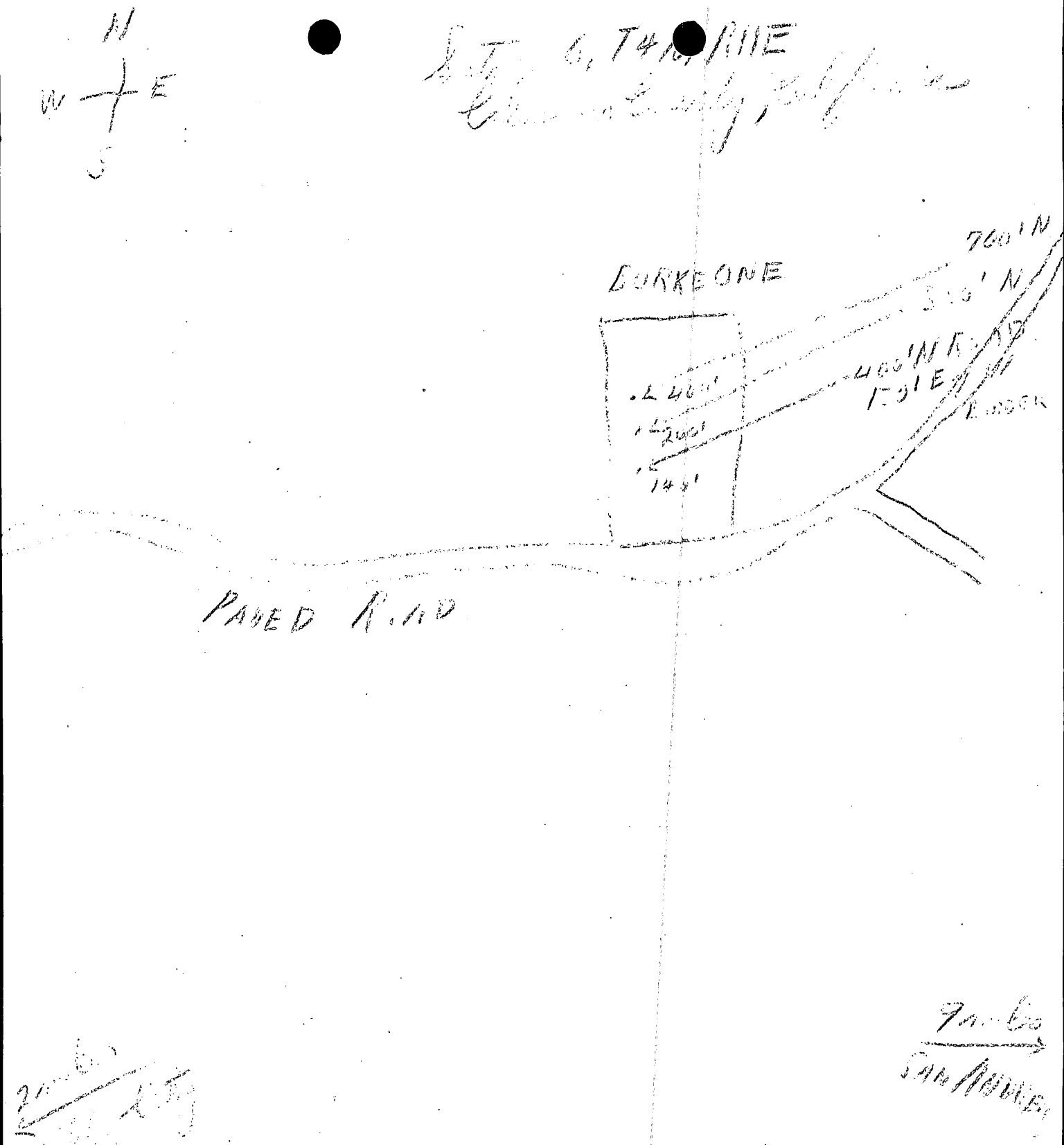
N
W
E
S
BURKE ONE
PAVED ROAD

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2394

Date received 2-27-52

Department of the Interior
Defense Minerals Administration
FEB 27 1952
RECEIVED

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California.

Name and address of applicant

Date 2/26/52

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.

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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:
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   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
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   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
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For Corporate Applicants

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Measured (proved)					
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16. Labor:

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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.

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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.

Gerald C Burke
(Name of company)

By _____
(Signature of authorized official)

2/26/52
(Date)

_____
(Title)

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

3. Three miles.
San Andreas, Calaveras County, California.
T. 4N., R. 11E., Section 6, The East half of the N.W. $\frac{1}{4}$ of the N.E. $\frac{1}{4}$ of Section 6.

4. No.

6. Six years prospecting experience. Seventeen as a contrator at Cleveland, O.

7. Area has been producing gold for over a hundred years. Copper, zinc are being mined at present.

This claim is at one end of an area that is one mile wide and three miles long. This area is of serpentine and bears nickel indicated by surface samples to run from 0.25 to 0.5 %. I estimate there to be three billion tons of nickel bearing ore in this region.

13. Paved highways, dirt roads and railroads both cross and border this area.

14. A river is at the South end. Two reservoirs are within a few miles and a spring is adjacent to this claim.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMEA-2394
Metal or Mineral
Date Received 2-27-52
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 27 1952

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California.

Name and address of applicant

Date 2/26,52.

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

1. Burke One, consists of the East half of the N.W. $\frac{1}{4}$ of the N.E. $\frac{1}{4}$ of Section 6, T. 4N., R. 11 E., Calaveras County, California. Lode Claim.

2. Nickel, possibly copper and cobalt.

A chain of hills consisting of serpentine approximately 400' high. This claim is on one of these hills. At the edge of this claim hill is a 12' shaft that exposes a vein containing 1.6 % copper. This copper is in a metamorphic rock.

3. Plan to diamond drill holes of 140',200' and 400' at a total cost of $ 5,000. Work should be completed within three months.

10. $ 500. Yes.

Form MF-100
(May 1951)

U.S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. DMEA-2394

Date received 2-27-52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 21 1952

Mr. Gerald C. Burke
209 Old Mint Building
San Francisco, California.

Name and address of applicant

Date 2/26/52

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   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

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

(*b*) If deposit is other than p[illegible]r:

(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.

Gerald C. Burke
(Name of company)

By _____
(Signature of authorized official)

2/26/52
(Date)

_____
(Title)

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

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

3. Three miles.
San Andreas, Calaveras County, California.
T. 4N., R. 11E., Section 6, The East half of the N.W. $\frac{1}{4}$ of the N.E. $\frac{1}{4}$ of Section 6.

4. No.

6. Six years prospecting experience. Seventeen as a contrator at Cleveland, O.

7. Area has been producing gold for over a hundred years. Copper, zinc are being mined at present.

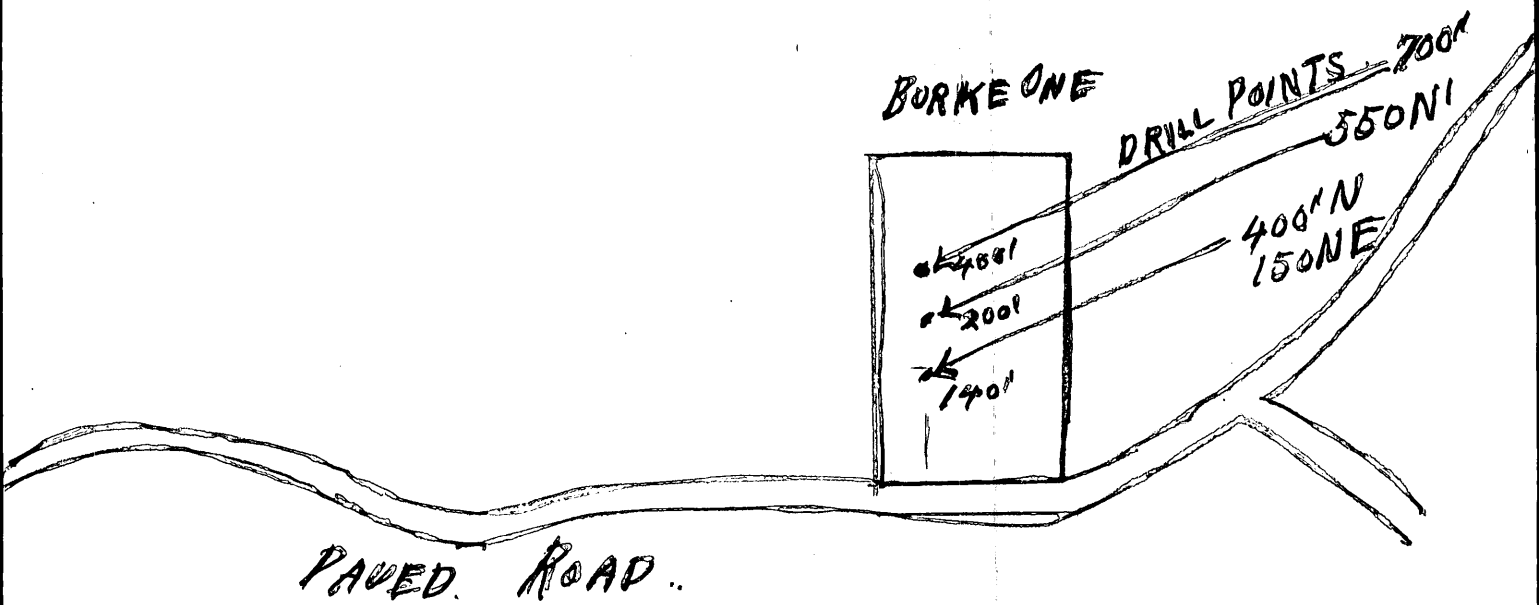
This claim is at one end of an area that is one mile wide and three miles long. This area is of serpentine and bears nickel indicated by surface samples to run from 0.25 to 0.5 %. I estimate there to be three billion tons of nickel bearing ore in this region.

13. Paved highways, dirt roads and railroads both cross and border this area.

14. A river is at the South end. Two reservoirs are within a few miles and a spring is adjacent to this claim.

DMEA-2

GERALD

N, R

Section 6, T4N, R11E
Calaveras County, California.