DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2452

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 USBM, USGS.

To:	Code 700, Rm. 4640	Date	3-28-52
To:	Mr. Mittendorf	Date	4/24/52
To:	Mail & Files	Date	
To:	Ellis (Docket)	Date	
To:	Mr Mittendorf	Date	5/2/52
To:	Mail & Files	Date	
To:	Operating Com.	Date	5/5/52
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
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CONTROLLED DOCUMENT

FILE COPY
SURNAME:

200

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

MAY 28 1952

Mr. W. W. Wick, President
Cal-Creek Placers, Inc.
Enumclaw, Washington

Dear Mr. Wick:

This will acknowledge receipt of your letter dated May 19, 1952 requesting that a blue print attached to your exploration application, Docket No. DMEA 2452, be returned.

In accordance with your request the blue print is returned herewith.

Sincerely yours,

ROBERT E. ADAMS

5/28

Robert E. Adams
Administrative Officer
Defense Minerals Exploration
Administration

Enclosure

READams/meb
5-28-52
cc to: Adm/Reading File
Mails & Files Br.

PROPERTIES:
WARREN MINING DISTRICT
IDAHO COUNTY, IDAHO

Cal-Creek Placers, Inc.

Enumclaw, Washington

May 19- 1952.

Defense Minerals Administration

Washington, 25, D. C.

Re: Docket No. DMEA-2452
Union & California Creek.
Idaho County, Idaho.
(Monazite)

Dear Sirs:-

If convenient will you kindly return the blue print that was attached to our application of above number.

Yours very truly

Cal-Creek Placers, Inc.

W. W. Wick, Pres.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

FILE COPY
700 SURNAME:

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

FLKnouse
Ellis
Lemmon
Hedges
Fletcher

Mr. [illegible] W. Wicks, President
Cal-Creek Placers, Inc.
1537 Cole Street
Enumclaw, Washington

Re: Docket No. [illegible]-2452 (Monazite)
Union and California Creek
Idaho County, Idaho

Dear Mr. Wicks:

Reference is made to your application for aid for an exploration project in the amount of $[illegible],643.00.

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

A careful study of your application and data available to this agency, reveals that the possibility of disclosing minable reserves by your proposed exploration program, is not considered sufficiently promising to justify Government participation. Accordingly, in the light of all the available information, we regret to advise, that your application for exploration aid is denied.

If additional exploration work on your property reveals information which makes this project feasible, an application may be resubmitted for consideration.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

FLKnouse/jem
5/2/52
cc to: Adm. Reading File
Docket
Messrs. A.J.Carlsen, Rm.1347
J.J.Norton, Rm. G-232
Ellis Knouse
Field Team, Region II (2)

5/1/52 gla

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash. April 29- 52

U. S. Dept. of the Interior
Defense Minerals Administration,
Washington, 25- D. C.

RE:- Docket No. DMEA-2452 (Monazite)
Cal-Creek Placers, Inc.
Union & California Creek
Idaho County, Idaho.

Dear Sirs:

The following refers to your inquiry of April 25- 1952.

1- The overburden of two feet was removed, then two feet of virgin gravel was removed, then one foot of virgin gravel was taken as a sample, a measured cubic foot. From this the course gravel was removed and washed to save the fine sands that might be attached to the course gravel. The balance was shipped to our office and taken to Mr. Frank Prescott, mining engineer of Tacoma, who sent samples on to the Lindsay Light and Chemical Co. of Chicagofor assay and report. These samples represented approximately fifty percent of the entire cubic foot sample. This same proceedure was followed in all ten pits dug.

In addition to the monazite found, they reported from pit #3, heavy sands of 26.5% and from pit #10, heavy sands in the amount of 2.1%, these samples being the only ones where Mr. Prescott asked for heavy sands amounts.

2- The assays showing in one pit 3.1% monazite and in another 0.1% were from samples taken from Union Creek and California Creek, about the middle of the property.P

Pit #1 near the lower end of the property and pits #9 and #10 which are at the upper end of the property showing traces of monazite would indicate according to Frank Prescott and Mark Evans, mining engineers, that there would be under the natural laws of, sedimentation, some deposit of monazite between the two extreme places of sampling on California Creek and also between the place where pit #3 was sunk on Union Creek and the point where Union Creek empties into California Creek. After careful study of the map and of the assays, they feel that it would be reasonable to presume that a fair average would be obtained by adding the 3.1% and the 0.1% and dividing the total of 3.2% by the number of pits dug, ten in this case, giving an average of 0.32% which we feel is a fair estimate of the average monazite contents.

We are unable to furnish certified copies of the assayers reports as these were listed by Mr. Prescott under number only when sending the samples in and the results were sent him with results of other samples sent in at the same time. The results of the assays of our samples were furnished us by Mr. Prescott.

#2- April 29- 1952.

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

Re:-Docket No. DMEA-2452 (Monazite)

3- The 25 foot shaft and drill holes were made for the purpose of testing for gold only and no effort was made at that time to test for monazite, this being in 1950.

It was after this drilling was done with a light drill that monazite activity developed near our property

We are enclosing herewith a log of two of the drill holes which will show the general formation found but does not show values of gold or monazite. These logs are almost identical with all that were taken when drilling for gold.

Very truly yours

Cal-Creek Placers, Inc.,

W.W. Wick

W. W. Wick, Pres.

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash. April 29- 52

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U. S. Dept. of the Interior
Defense Minerals Administration,
Washington, 25- D. C.

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FILE COPY
700 SURNAME:

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

APR 25 1952

F.H. Knouse
Ellis
Chief

Mr. W. W. Wick, President
Cal-Creek Placers, Inc.
1537 Cole Street
Enumclaw, Washington

Re: Docket No. DMA-2452 (Monazite)
Cal-Creek Placers, Inc.
Union and California Creek
Idaho County, Idaho

Dear Mr. Wick:

We wish to refer you to the referenced application now being examined by this office. Before we can proceed further with the processing of your application we will require the following data:

1. Kindly furnish a detailed description of the method used to sample and the method used to obtain the monazite values in this deposit; i.e.: Were the entire contents from each test pit screened and concentrated into a heavy mineral concentrate and a chemical analysis made of the resultant product?

2. Your application shows 10 test pits were sunk from which samples were obtained and analysis made for monazite. Only two of the test pits showed monazite values, i.e. No.3 - 3.1% and No.5 - 0.1%. How was the average of 0.32% monazite arrived at and in your opinion, does this mean all the gravel has an indicated average content of 0.32% monazite? If available, kindly send a certified copy of the assayers report on the above samples.

3. If the samples from the 25-foot shaft and the drill holes are available, please furnish a report on said samples including drill logs and the monazite content, also show hole locations and a map-section of the shaft giving location of monazite values.

On receipt of the above information we will be able to continue processing the application.

Sincerely yours,

Signed

Ernest W. Ellis, Chief
Rare and Misc. Metals Division
Defense Minerals Exploration
Administration

F.H. 4-25-52

FHKnouse/jem
4/24/52
cc to: Adm. Reading File
Docket
Messrs.E.J.Carlson,Rm.1347
J.J.Norton,Rm.G-2320S
Ellis Knouse
Field Team, Region II (2)

4/17/52 gla

Memorandum

To: Ernest Wm. Ellis, Chief, Rare and Misc. Metals Division
Defense Minerals Exploration Administration

From: E. J. Carlson, S.M.I.B., Bureau of Mines

Subject: Docket No. D.M.E.A. 2452

There is insufficient evidence submitted in this docket to establish whether or not any monazite exists in minable quantities. Of the 10 test pits one pit is reported to run 3.1% --- but what does this mean? If it means 3.1% monazite of the total material, that would be about 80 pounds of monazite per cubic yard. Such an amount is not believed by the writer. The samples taken by the drilling in 1950 should have been analysed for monazite. The S.M.I.B., at that time, offered to check some of the samples for monazite in its field laboratory at Boise, Idaho. The samples were never brought to our laboratory.

The sample sent to Moscow, Idaho is from the Idaho-Klondike which is a high old river channel that has little relation to California creeks. The sample sent to "Edwin J. Carlson" was taken from a sluice box concentrate from this same mine and probably represented the washed and rewashed concentrates of dozens of yards of gravels. Panning of the supposed mother bed-

rock strata of the Idaho-Klondike in 1950 and in my presence indicated about 0.1 pound of monazite per cubic yard.

Perhaps the applicant could explain how he would save the monazite in a hydraulic operation. Unless the gold is very coarse and "heavy", a hydraulic operation would probably save 35% of the gold. Monazite, having a density of about one-fourth that of gold, would be extremely difficult to save in a sluice box. I would estimate possibly 35% of the monazite could be saved in such an operation.

In view of the lack of data, above noted, I cannot recommend any loan on such inconclusive evidence that monazite is minable by Cal-Creek Placers, Inc. on California Creek.

E. J. Carlson

4/2/52 gla.

IN REPLY REFER TO:

G-MD-JJN

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

March 31, 1952

Memorandum

REVIEW OF APPLICATION DMEA-2452

To: Ernest W. Ellis, Rare and Miscellaneous Metals Division, DMEA
From: J. J. Norton, U. S. Geological Survey
Commodity: Monazite
Applicant: Cal-Creek Placers, Inc.
Name of property: None.
Location of property: Marshall Lake - Warren district, Idaho County, Idaho.
Estimated cost of project: $25,640.
Summary of applicant's proposal: Drill creek gravels for monazite and by-products.
Sources of information on applicant's property: Applicant indicates that U. S. Bureau of Mines has information on this property. U. S. Geological Survey has no data.
Brief description of deposit: Placer.
RECOMMENDATION: If U. S. Bureau of Mines recommends denial on the basis of their extensive knowledge of this area, then I will concur. If they have reason to believe this application should be considered further, it should be sent to the field team.
Reasons for recommendation: Applicant has not submitted sufficient data to justify exploration. Ten assays were submitted, but only one contained appreciable monazite.
Additional comments:

1. Applicant states that he submitted a previous application (DMA-1280?), but I have not seen it.
2. Applicant states he submitted a map, but no such map accompanied the copy of the application sent to me.

J. J. Norton

J. J. Norton

IN REPLY REFER TO:

G-MD-JJN

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

March 31, 1952

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J. J. Norton

Norton:jeh
G-3/31/52
copy to: Director's reading file 4212
Branch reading file 4212
DMEA
Norton G-230

EXPLORATION

Subject: DMEA-2452
Re: Exploration Loan
Paul, Tonopah, Goldfield, Union
and Gold Dust Groups
March 28, 1952

Mr. W. W. Wick, President
Cal-Creek Placers, Inc.
1537 Cole Street
Enumclaw, Washington

My dear Mr. Wick:

This will acknowledge receipt of your application dated February 23, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2452 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2452 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Acting Administrative Officer

7862

DMEA-2452

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION

WASHINGTON 25, D. C.

So. 157 Howard Street
Spokane 4, Washington

March 24, 1952

Mr. Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Johnson:

Enclosed are the original and two copies of an application for the Cal-Creek Placers, Inc., Enumclaw, Washington, for exploration assistance on a monazite placer deposit near Burgdorf, Idaho. The fourth copy of the application is being retained for use at this office.

Sincerely yours,

Elton A. Youngberg

Elton A. Youngberg
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1952

Enclosures
cc: USBM, Spokane

DMEA-2452

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

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Elton A. Youngberg
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures
cc: USBM, Spokane

DEPARTMENT OF THE INTERIOR
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DMEA-2452

UNITED STATES
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WASHINGTON 25, D. C.

[illegible] Street
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Milton A. Youngberg
For: A. E. Weissenborn
Executive Officer, DMEA
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Enclosures
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DMEA-2452

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

[illegible]

[illegible]

Mr. Frank T. Johnson
Chairman, Operating Committee
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Johnson:

Enclosed are the original and two copies of an application for the Cal-Creek Placers, Inc., Shushelaw, Washington, for exploration assistance on a dynamite placer deposit near Bangkok, Idaho. The fourth copy of the application is being retained for use at this office.

Sincerely yours,

Milton A. Youngberg
For: A. L. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosures
cc: DMEA, Spokane

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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MAR 28 1952

DMEA-2452

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

Dept. of the Interior,
A. E. Weissenborn,
Executive Officer, DMEA.
Spokane, Washington.

Dear Sirs:-

Herewith find four copies of MF- 100 and MF.103. You will note that previous request for a loan was made but since making that r equest, much work and assaying has been done and much more gravel uncovered so we felt it best to make a new report of these things on Form MF 100.

Since arrangments for drilling will be made through the C. Kirk Hillman Co. of Seattle, and equipment will have to be arranged for, we would appreciate if possible, to know about May 20th to 25th as to the loan being granted. No money will be needed until June 15th.

Very sincerely yours,

Cal-Creek Placers, Inc.

W. W. Wick, Pres.

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Spokane, Washington.

Dear Sirs:-

Herewith find four copies of MF- 100 and MF.103. You will note that previous request for a loan was made but since making that r equest, much work and assaying has been done and much more gravel uncovered so we felt it best to make a new report of these things on Form MF 100.

Since arrangments for drilling will be made through the C. Kirk Hillman Co. of Seattle, and equipment will have to be arranged for, we would appreciate if possible, to know about May 20th to 25th as to the loan being granted. No money will be needed until June 15th.

Very sincerely yours,

Cal-Creek Placers, Inc.

W. W. Wick

W. W. Wick, Pres.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 26 1952

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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

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

Not To Be Filled in by Applicant

Docket No. DMCA-2452
Metal or Mineral
Date Received 5-28-52
Amount $
Participation (Government %)

Name and address of applicant

CAL-CREEK PLACERS, Inc.
1537 Cole St.
Enumclaw, Washington.

Date February 23- 1952.

If you have already filed MF-100, give date filed May 26- 1951, type of assistance requested Prospecting Exploration $3,000,

DMA Docket Number (if available) ~~DMA-1280X~~

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1952

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. Attached sheet

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

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

   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? Monazite

   (*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.

16—64067-2

Attached sheet

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. **Attached sheet**

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

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.

   Attached sheet

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.

   Attached sheet

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. **Attached sheet**

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

   (*a*) Rented **Attached sheet**

   (*b*) Purchased **Attached sheet**

   (*c*) Furnished by you **Attached sheet**

   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.

   Attached sheet

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.

   Attached sheet

10. (*a*) How much are you prepared to invest in the proposed project? $3000.00

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

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

Attached sheet

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.

CAL-CREEK PLACERS, Inc.
(Name of company)

By [signature]
(Signature of authorized official)

February 23- 1952.
(Date)

President.
(Title)

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

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

For Form #MF-103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

1- (a)- The property consists of 5 groups of mining claims, of 160 acres each, a total of 800 acres, located on Union and California Creeks in Idaho County, Idaho, being 14 miles from Burgdorf, in the Warren-Marshall Lake Mining Districts.

(b)- The property is owned by Cal-Creek Placers, Inc.

(c)- It consists of the Paul group, 1000 feet by 6970 feet; Tonopah group, 1080 by 5280 feet; Goldfield group, 1320 by 5280 feet, Union group, 1080 by 5280 feet and the Gold Dust group, 1320 by 5280 feet, recorded in the office of the Idaho County Clerk, Grangeville, Idaho.

(Note) Both areas are the same.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

2- (b) This property lies in the valleys of Union and California Creeks and was formed by the wearing away of the hills and deposited in the creek valleys, the erosion process having worn away about 6000 to 7000 feet of the original formation. According to the report of the U. S. Bureau of Mines, this is classed as good hydraulic property, the gradient being from 250 feet to 300 feet per mile, sufficient to hydraulic but not enough to have carried away the gravels. The gravel bed is from 300 to 1700 feet wide and contains about 600 acres of workable gravel, mostly of the size for hydraulic operation. There are some large boulders running to 5 feet in diameter. These are readily handled by drag line or donkey. The property has been prospected enough and tested enough to make it a good prospect for drilling and deeper testing. ?

A map is attached.

Test pits were dug two feet into the virgin gravel for the samples which assayed as follows:-for monazite.

#1- Trace-	#2- Nil	#3- 3.1%
#4- Nil-	#5- 0.1%	#6- Nil
#7- Nil-	#8- Nil	# 9- Trace
#10- Trace.		

This average of .32% seems to indicate justification for deeper drilling and testing.

For Form MF 103.

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

<u>Correction on 3- (a) Should read as follows:-</u>

3- (a) The total cost of the project will be $25,643.00

For Form MF-103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

3- (a) It is proposed to run six or seven roadways across the property at approximate points indicated on the map, drilling a row of holes on each roadway and digging a pit at each end of each row to determine depth and condition of bedrock and nature of formation. This will give a general picture of the formation and values found on most of the property. Should drilling of these holes indicate need for more drilling it can be done.

The total cost of the project will be $26,637.00

(b) It will require three months to start and complete the proposed work, including moving in and out. Drilling will be arranged through the C. Kirk Hillman Co., of Seattle.

Since drilling equipment will be rented it will be advisable to know as early as convenient regarding the granting of the loan so equipment may be arranged for before it is all taken up.

The money will not be needed until June 15th however.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

4- The entire valley is gravel bearing except the lower half of the Paul claim and the upper portion of the Gold Dust claim where the gradient was too great to hold the gravel.

Two additional claims will be filed on, adjoining the east side of the property, this having been explored and justifying location.

The location of the proposed work is indicated by the broken red lines on the map. There will be pits dug in addition to the drilling, to try to expose bedrock.

Map is attached.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

5- There is a cabin in good condition, located at the junction of California and Union Creeks, large enough to sleep four and to cook for eight or ten. Additional sleeping quarters will be provided in tents which are on the property. They will accomodate six for sleeping in addition to the room in the cabin.

There is a complete cooking outfit, good stove and dishes and cooking utensils. No additional expense will be incurred to provide living quarters for a crew., except one tent and some bedding.

For Form MF 103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

6-	One tent- 14 X 16- - - - - - - - - - - - -	90.00
	One tent stove- - - - - - - - - - - - - -	35.00
	15 blankets- - - - - - - - - - - - - - - -	112.50
	5 pillows- - - - - - - - - - - - - - - - -	35.00
	10 pillow slips- - - - - - - - - - - - - -	12.50
	20 sheets - - - - - - - - - - - - - - - -	50.00
	Lumber for tent floor and sides- - - - -	300.00
	5 pads for cots - - - - - - - - - - - - -	40.00
		$675.00

All other buildings and equipment is in good order.

7

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash,

7 (a)- Rented- Complete drilling outfit- 3 months- - $3,000.00

Bull dozer with operator- 2 months- - - - - - 6096.00

(b)- Purchased- 3/4 ton pickup truck, 4 wheel drive (used) 1200.00

(c) Furnishedby us- Cabin- 2 beds- 6 cots- cook stove- cooking equipment and dishes. No rental or depreciation.

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

8- 1 driller- @ 2.25 per hr, with board and bed and time and one half for Saturdays- 3 months- - - - - - $1398.00

1 Panner-driller helper- @2.25 per hr, with board and bed, time and half for Saturdays- 3 months- - - - - 1398.00

3 laberers @ 1.75 per hr, with board and bed- 3 months time and half for Saturdays- -- - - - - - ---- 3276.00

1 Cook- @250.00 per month- 3 months - - - - - - - - - 750.00

1 Mining engineer-foreman- 4 months @ $700.00 - - - 2800.00

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

9-	1 tent- 14 X 16- - - - - - - - - - - - - - - - - - - -	$90.00
	1 tent stove- - - - - - - - - - - - - - - - - - - -	35.00
	15 blankets- @7.50- - - - - - - - - - - - - - - - -	112.50
	5 pillows @ 7.00 - - - - - - - - - - - - - - - - -	35.00
	10 pillow slips- @ 1.25- - - - - - - - - - - - - -	12.50
	20 sheets- - @2.50 - - - - - - - - - - - - - - - -	50.00
	Lumber for tent floor and sides. - - - - - - - -	300.00
	5 pads for cots - - - - - - - - - - - - - - - - - -	40.00
	Social Security and Retirement - - - - - - - - - -	300.00
	Food for 3 months, 7 men - - - - - - - - - - - - -	1500.00
	Gas and oil, 3 months- - - - - - - - - - - - - - -	450.00
	Powder and fuse and caps- - - - - - - - - - - -	250.00
	Accounting -	300.00
	Assaying- -	1000.00
	Incidentals and unexpected repairs etc., travel expenses to and from mine- - - - - - - -	1250.00

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

11- The Cal-Creek property is located near the center of the granite belt running through Idaho, where the Monazite deposit is found in the granite formation. With these deposits found closely to the North-East, East, South and West in the same geological formation which has been proven by drilling and dredging, it is logical to believe the same Monazite deposit has taken place in the valleys of the California and Union Creeks on which are located the Cal-Creek property.

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-2452

Date received 3-28-52

CAL-CREEK PLACERS, Inc.
1537 Cole St.
Enumclaw, Wash.

Name and address of applicant

Date Feb. 23- 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? Monazite prospecting.
   (*b*) What are the byproducts, if any? Gold- garnets
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: Hydraulic placer ground.
   (*a*) Linear feet of shafts. None
   (*b*) Linear feet of drifts and crosscuts. None
   (*c*) Linear feet of tunnels or adits. None
   (*d*) Linear feet of other mine openings (explain briefly). None

   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. Attached sheet
   (*b*) Mining district. Marshall Lake- Warren
   (*c*) Township, Section, Range. Do not know.
   (*d*) County, State. Idaho County, Idaho
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. No
   (*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 2 years

   DEPARTMENT OF THE INTERIOR
   Defense Minerals Administration
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   MAR 28 1952
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project. Attached sheet
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation. Attached sheet
   (*b*) State briefly the known history and production of adjoining and neighboring properties. Attached sheet
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

   Attached sheet

16—63792-2

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
W. W. Wick, Enumclaw, Wash.	Pres- D.	None	20,000	50,000	None	None	
Albert Z, Druse, 1708- 16th Ave. So. Yakima, Wash	V. Pres- D	None	20,000	50,000	None	None	
A. J. Palmquist, Enumclaw, Wash.	Sect-Treas D	None	25,000	50,000	None	None	
Mark Evans, Wallace, Idaho		None	50,000	50,000	None	None	
Helen Schwartze, Yakima, Wash.		None	15,000	50,000	None	None	
Frances Evans, Palo Alto, Cal		None	50,000	50,000	None	None	
Helen Palmquist, Enumclaw, Wash		None	50,000	50,000	None	None	
Helen Wick, Enumclaw, Wash.		None	20,000	50,000	None	None	
	Total	None	x x x x x	400,000	None	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	$ 15,000.	$ 10,067.50	$ 0.01	424,270	None
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production:

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

12. Ore or Mineral Reserves: Does not apply.

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

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

3- (a)- Cal-Creek Placers, Inc., is located 14 miles north of Burgdorf, the nearest town and is 40 miles north west from McCall, the nearest shipping point by rail

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

6-(a) W. W. Wick, Pres., retired physician, has been connected with mining operations in 1930, which were forced to close on account of lack of finances.

Albert Z. Druse, Vice Pres., n ow troop steward on Government transport Gen. Funston., has been in charge of mining hotels for Pacific Coast Coal Co., until closing of the mines.

Albert Palmquist, an active druggist, owning a drug store in Enumclaw, Wash. He is Sect. Treas. Has done a great deal of prospecting in Oregon for placer properties.

Accounting is done by Radliff and Hansen, accountants in Enumclaw, Wash.

(b) All field work is in charge of Mark Evans, a geological mining engineer of over thrity years experience, a graduate of Stanford University.

A competent drilling crew will be employed for drilling. Drilling will be arranged for through the C. Kirk Hillman Co. of Seattle.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

7- (a) Four of these claims were located by A. E. Nugent and C. E. Wolfe of Wallace, Idaho, and were sold to W. W. Wick, Albert Druse and Albert Palmquist who in turn transferred them to the Cal-Creek Placers, Inc., for stock. The Paul claim was acquired from Mark Evans for stock. The original owners of all these claims did no more than assessment work and surface sampling. One shaft was sunk to a depth of about 25 feet, looking for gold. There has been no production as work was not done deep enough to reach bedrock.

Since being acquired by Cal- Creek Placers, Inc., about four miles of road was built onto the property, the cabin repaired and a little drilling done with a light drill in the summer of 1950, looking for gold but bedrock was not reached. After the samples from drilling were brought out, our attention was called to the fact that Monazite was found in the samples of sands.

In the summer of 1951 we had ten shallow pits dug to get samples for monazite examination. These were taken by Engineer Mark Evans, by removing two feet of overburden, then going two feet into the virgin gravels for the samples.

Work was stopped due to lack of finances.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

7- (b) Seventy miles south of Cal-Creek property there are 2 or three large dredges working on Monazite properties, with excellent production results.

On Ruby Meadows, 15 miles south of the Cal-Creek property, extensive drilling was done in 1951 and results of Monazite showing were so good that a dredge is to be operated there in the summer of 1952.

Sampling was done on the Marshall Lake Meadows in 1951 with Monazite findings so good that drilling is to be done in 1952. This property lies at the upper end of Union Creek valley, about 10 miles west of Cal-Creek properties and drains greatly into the Cal-Creek valley.

In the Warren Meadows drilling was done by the Bureau of Mines and results justified putting a dredge in to rework the old placer ground. This is 40 miles south-east of the Cal-Creek properties

On the old Idaho-Klondike property now owned by Mark Evans, a report from the Bureau of Mines of Idaho, showed evidence of Monazite as well as other rare earth minerals as reported in his attached report. This property lies immediately upstream from the Cal-Creek ground.

All of these above properties are in the same geological formation as the Cal-Creek property. It was only worked for gold however.

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

For Form MF 100

7 (c) Copy of report on Cal-Creek Placers by Mark Evans, Mining Geologist.

Dr. W. W. Wick, Pres., Cal-Creek Placers, Inc.
Enumclaw, Washington.

Dear Dr. Wick:-

Your property on California Creek in the Warren and Marshall Lake Mining Districts lies downstream from my property and the same minerals should be present as it is a continuation of the gravels I worked upstream.

A samplex of black-sand concentrate sent to the Bureau of Mines at Moscow, Idaho in 1937 showed the following minerals; Magnetite, Ilmenite, Rutile and Brookite, Samarskite, Zircon, Monazite, Xenotime-ytrium, Erbium, Cerium Phosphate, Garnets, a Cerium-lanthanum phosphate, and a few apparently rare minerals in small amounts not identified. The gold content of the gravels from which these ~~xxxxxxx~~ sands were taken ran up to twenty dollars a yard.

A sample of this sand sent to Edwin J. Carlson of the Atomic Energy Commission in Boise, Idaho, in 1949 gave the following: "Equivalent of 18% Monazite or .5% Th O_2".

You have the results of my sampling of your property in the summer of 1951 in which ten samples taken over a great area, all showed radio-active minerals, and as they were all surface samples there should be a greater concentration of the rare earth minerals with depth. An accurate estimate of yardage cannot be given until the surface is surveyed and a numer of test holes determine the depth. I would assume there were from fifty to a hundred million yards of gravel on this property.

For Form MF 100

7 (e) continued.

The valley of California Creek was made by a preglacial River of considerable size and it areded the contact of the intrusive magma and the overlying sedimentary rocks which is the natural occurance of the rare earth minerals and they are known to occur on the north side of War Eagle Mountain and in the Hanging-Valley above Union Creek. After the ice sheet melted the old river was diverted by stream-piracy and only the smaller stream left in the valley, this indicating that you may expect the concentrates of an area many times the size of the present valley.

The ground water standing in the valley gravels has prevented prospecting by the early day miners but would offer no problem for drilling. I recommend that it be drilled extensively to determine the extent and amount of the gravels and the gold and rare earth mindral content. Because of the steep gradient of the creek below the deposit, it is a natural hydraulic proposition and the ten foot average snowfall will furnish ample water for a long season.

Very Sincerely Yours

(signed) Mark Evans.

Mining Geologist.

Box 693, Wallace, Idaho.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

12- (e) 1-Estimated yardage of gravel deposit is 50 to 100 million cubic yards. Marketable mineral content will have to be determined by drilling in 1952.

(2) Map is attached to form MF 103 since this report is made showing changes in conditions of the property and increased size as indicated by work in 1951.

(3) The gravel is medium fine, loose and contains some boulders more than one foot in diameter, probably not more than one percent. There are some boulders that run as high as six feet in diameter but they are not numerous. Tests indicate that the fine sands run about 30 percent of the total yardage, perhaps more. Other gravels are the right size for easy hydraulic handling.

(4) Bedrock has not been reached on the Cal-Creek property so exact form is not known. However, on the Idaho-Klondike property immediately upstream from Cal-Creek, where a drift mine was working with the drift on bedrock, it was found to be rotten granite, fairly even and soft, easily removable by hydraulic water pressure.

(5) The overburden is an average of two feet deep, composed of rotten wood and decomposed forest material, loose, fine texture, easily removed.

(6) Based on the gravel exposed, there is an estimated reserve yardage of from 50 to 100 million cubic yards.

For Form MF 100

Cal-Creek- Placers, Inc.
1537 Cole St., Enumclaw, Wash.

13- It is 14 miles to Burgdorf, the nearest town for supplies. Employees will live on the property.
McCall, the nearest shipping point by rail, is 40 miles.
There are 14 miles of good forest road and the rest is county and state roads.

14- The water supply is from Union and California Creeks and is ample for all purposes at all seasons of the year.

15- Noo power is used except gasoline and deisel oil. There is ample water to develop electricity for lights if needed later on.

16- In the summer of 1951 there were three meh employed in getting the road in shape and in digging the test pits for samples. All were laborers, except engineer who supervised the work and did the sample cutting.

17- There is a log cabin on the property, in good condition, large enough to sleep four and to feed eight or ten, complete with dishes and cooking utensils and good cook stove.
Two tents are available with cots to sleep six. These are on the property. The company owns no other equipment.

18- The ground is ideal for hydraulic operation, having a gradient of 250 to 300 feet to the mile, with ample room at the lower end of the property for all waste disposal.

(*b*) If deposit is other than pla[illegible] Does not apply

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer: See attached sheets.

(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.

Attached sheet

14. Water Supply:

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

Attached sheet

15. Power:

State amount of power used, rate per hour, and source thereof. None required

16. Labor:

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

Attached sheet

17. Equipment and Facilities: Attached sheet

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.

Attached sheet

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

Attached sheet.

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.

CAL-CREEK PLACERS, Inc.
(Name of company)

By [illegible]
(Signature of authorized official)

February 23- 1952
(Date)

President.
(Title)

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

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

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-2452
Metal or Mineral
Date Received 3-28-52
Amount $
Participation (Government %)

Name and address of applicant

CAL-CREEK PLACERS, Inc.
1537 Cole St.
Enumclaw, Washington.

Date February 23- 1952.

If you have already filed MF-100, give date filed May 26- 1951, type of assistance requested Prospecting Exploration $3,000,

DMA Docket Number (if available) ~~DMA-1280X~~

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. Attached sheet

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

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

   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? Monazite

   (*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.

Attached sheet

DEPARTMENT OF THE INTERIOR
Defense Minerals Division
RECEIVED
MAR 28 1952

16—64067-2

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

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

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

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

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.
   Attached sheet

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.
   Attached sheet

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. Attached sheet

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

   (*a*) Rented Attached sheet

   (*b*) Purchased Attached sheet

   (*c*) Furnished by you Attached sheet

   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.
   Attached sheet

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.
   Attached sheet

10. (*a*) How much are you prepared to invest in the proposed project? $3000.00

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

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

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.

CAL-CREEK PLACERS, Inc.
(Name of company)

By [signature]
(Signature of authorized official)

February 23- 1952.
(Date)

President.
(Title)

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

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

For Form #MF-103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

1- (a)- The property consists of 5 groups of mining claims, of 160 acres each, a total of 800 acres, located on Union and California Creeks in Idaho County, Idaho, being 14 miles from Burgdorf, in the Warren-Marshall Lake Mining Districts.

(b)- The property is owned by Cal-Creek Placers, Inc.

(c)- It consists of the Paul group, 1000 feet by 6970 feet; Tonopah group, 1080 by 5280 feet; Goldfield group, 1320 by 5280 feet, Union group, 1080 by 5280 feet and the Gold Dust group, 1320 by 5280 feet, recorded in the office of the Idaho County Clerk, Grangeville, Idaho.

(Note) Both areas are the same.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

2- (b) This property lies in the valleys of Union and California Creeks and was formed by the wearing away of the hills and deposited in the creek valleys, the erosion process having worn away about 6000 to 7000 feet of the original formation. According to the report of the U. S. Bureau of Mines, this is classed as good hydraulic property, the gradient being from 250 feet to 300 feet per mile, sufficient to hydraulic but not enough to have carried away the gravels. The gravel bed is from 300 to 1700 feet wide and contains about 600 acres of workable gravel, mostly of the size for hydraulic operation. There are some large boulders running to 5 feet in diameter. These are readily handled by drag line or donkey. The property has been prospected enough and tested enough to make it a good prospect for drilling and deeper testing.

A map is attached.

Test pits were dug two feet into the virgin gravel for the samples which assayed as follows:-for monazite.

#1- Trace-	#2- Nil	#3- 3.1%
#4- Nil-	#5- 0.1%	#6- Nil
#7- Nil-	#8- Nil	# 9- Trace
#10- Trace.		

This average of .32% seems to indicate justification for deeper drilling and testing.

For Form MF 103.

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

Correction on 3- (a) Should read as follows:-

3- (a) The total cost of the project will be $25,643.00

For Form MF-103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

3- (a) It is proposed to run six or seven roadways across the property at approximate points indicated on the map, drilling a row of holes on each roadway and digging a pit at each end of each row to determine depth and condition of bedrock and nature of formation. This will give a general picture of the formation and values found on most of the property. Should drilling of these holes indicate need for more drilling it can be done.

The total cost of the project will be $26,637.00

(b) It will require three months to start and complete the proposed work, including moving in and out. Drilling will be arranged through the C. Kirk Hillman Co., of Seattle.

Since drilling equipment will be rented it will be advisable to know as early as convenient regarding the granting of the loan so equipment may be arranged for before it is all taken up.

The money will not be needed until June 15th however.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

4- The entire valley is gravel bearing except the lower half of the Paul claim and the upper portion of the Gold Dust claim where the gradient was too great to hold the gravel.

Two additional claims will be filed on, adjoining the east side of the property, this having been explored and justifying location.

The location of the proposed work is indicated by the broken red lines on the map. There will be pits dug in addition to the drilling, to try to expose bedrock.

Map is attached.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

5- There is a cabin in good condition, located at the junction of California and Union Creeks, large enough to sleep four and to cook for eight or ten. Additional sleeping quarters will be provided in tents which are on the property. They will accomodate six for sleeping in addition to the room in the cabin.

There is a complete cooking outfit, good stove and dishes and cooking utensils. No additional expense will be incurred to provide living quarters for a crew, except one tent and some bedding.

For Form MF 103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

6-	One tent- 14 X 16- - - - - - - - - - - - -	90.00
	One tent stove- - - - - - - - - - - - - -	35.00
	15 blankets- - - - - - - - - - - - - - - -	112.50
	5 pillows- - - - - - - - - - - - - - - - -	35.00
	10 pillow slips- - - - - - - - - - - - - -	12.50
	20 sheets - - - - - - - - - - - - - - - -	50.00
	Lumber for tent floor and sides- - - - -	300.00
	5 pads for cots - - - - - - - - - - - - -	40.00
		$675.00

All other buildings and equipment is in good order.

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash,

7 (a)- Rented- Complete drilling outfit- 3 months- - $3,000.00

Bull dozer with operator- 2 months- - - - - - 6096.00

(b)- Purchased- 3/4 ton pickup truck, 4 wheel drive (used) 1200.00

(c) Furnishedby us- Cabin- 2 beds- 6 cots- cook stove- cooking equipment and dishes. No rental or depreciation.

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

8- 1 driller- @ 2.25 per hr, with board and bed and time and one half for Saturdays- 3 months- - - - - - $1398.00

1 Panner-driller helper- @2.25 per hr, with board and bed, time and half for Saturdays- 3 months- - - - - 1398.00

3 laborers @ 1.75 per hr, with board and bed- 3 months time and half for Saturdays- -- - - - - - ---- 3276.00

1 Cook- @250.00 per month- 3 months - - - - - - - - - 750.00

1 Mining engineer-foreman- 4 months @ $700.00 - - - 2800.00

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

9-	1 tent- 14 X 16- - - - - - - - - - - - - - - - - - - -	$90.00
	1 tent stove- - - - - - - - - - - - - - - - - - - -	35.00
	15 blankets- @7.50- - - - - - - - - - - - - - - - -	112.50
	5 pillows @ 7.00 - - - - - - - - - - - - - - - - -	35.00
	10 pillow slips- @ 1.25- - - - - - - - - - - - - -	12.50
	20 sheets- - @2.50 - - - - - - - - - - - - - - - -	50.00
	Lumber for tent floor and sides. - - - - - - - -	300.00
	5 pads for cots - - - - - - - - - - - - - - - - - -	40.00
	Social Security and Retirement - - - - - - - - - -	300.00
	Food for 3 months, 7 men - - - - - - - - - - - - -	1500.00
	Gas and oil, 3 months- - - - - - - - - - - - - - -	450.00
	Powder and fuse and caps- - - - - - - - - - - - -	250.00
	Accounting -	300.00
	Assaying- -	1000.00
	Incidentals and unexpected repairs etc., travel expenses to and from mine- - - - - - - -	1250.00

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

11- The Cal-Creek property is located near the center of the granite belt running through Idaho, where the Monazite deposit is found in the granite formation. With these deposits found closely to the North-East, East, South and West in the same geological formation which has been proven by drilling and dredging, it is logical to believe the same Monazite deposit has taken place in the valleys of the California and Union Creeks on which are located the Cal-Creek property.

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-2452

Date received 3-28-52

CAL-CREEK PLACERS, Inc.
1537 Cole St
Enumclaw, Wash.

Name and address of applicant

Date Feb. 23- 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? Monazite Prospecting.
   (*b*) What are the byproducts, if any? Gold- Garnets
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: Hydraulic placer ground
   (*a*) Linear feet of shafts. None
   (*b*) Linear feet of drifts and crosscuts. None
   (*c*) Linear feet of tunnels or adits. None
   (*d*) Linear feet of other mine openings (explain briefly). None
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size of productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point. Attached sheet
   (*b*) Mining district. Marshall Lake- Warren
   (*c*) Township, Section, Range. Do not know
   (*d*) County, State. Idaho County, Idaho.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. No
   (*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 2 years
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. Attached sheet.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation. Attached sheet
   (*b*) State briefly the known history and production of adjoining and neighboring properties. Attached sheet
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
   Attached sheet

16—63792-2

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
W. W. Wick, Enumclaw, Wash,	Pres- D	None	20,000	50,000	None	None	
Albert Z. Druse- 1708- 16th Ave, So. Yakima, Wash	V. Pres. D	None	20,000	50,000	None	None	
~~A. J. Palmquist, Enumclaw Wn~~	~~Sect-Treas D~~	~~None~~	~~25,000~~	~~50,000~~	~~None~~	~~None~~	
Mark Evans, Wallace, Idaho		None	20,000	50,000	None	None	
Helen Schwartze, Yakima, Wash.		None	15,000	50,000	None	None	
Frances Evans, Palo Alto, Cal		None	50,000	50,000	None	None	
~~Mrs~~ Helen Palmquist- Enumclaw, Wn		None	50,000	50,000	None	None	
Helen Wick, Enumclaw, Wash		None	20,000	50,000	None	None	
	Total	None	x x x x x	400,000	None	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	$ 15,000	$ 10,067.50	$ 0.01	424,270	None
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production:

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

12. Ore or Mineral Reserves: Does not apply

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

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

3- (a)- Cal-Creek Placers, Inc., is located 14 miles north of Burgdorf, the nearest town and is 40 miles north west from McCall, the nearest shipping point by rail

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

6-(a) W. W. Wick, Pres., retired physician, has been connected with mining operations in 1930, which were forced to close on account of lack of finances.

Albert Z. Druse, Vice Pres., n ow troop steward on Government transport Gen. Funston., has been in charge of mining hotels for Pacific Coast Coal Co., until closing of the mines.

Albert Palmquist, an active druggist, owning a drug store in Enumclaw, Wash. He is Sect. Treas. Has done a great deal of prospecting in Oregon for placer properties.

Accounting is done by Radliff and Hansen, accountants in Enumclaw, Wash.

(b) All field work is in charge of Mark Evans, a geological mining engineer of over thrity years experience, a graduate of Stanford University.

A competent drilling crew will be employed for drilling.

Drilling will be arranged for through the C. Kirk Hillman Co. of Seattle.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

7- (a) Four of these claims were located by A. E. Nugent and C. E. Wolfe of Wallace, Idaho, and were sold to W. W. Wick, Albert Druse and Albert Palmquist who in turn transferred them to the Cal-Creek Placers, Inc., for stock. The Paul claim was acquired from Mark Evans for stock. The original owners of all these claims did no more than assessment work and surface sampling. One shaft was sunk to a depth of about 25 feet, looking for gold. There has been no production as work was not done deep enough to reach bedrock.

Since being acquired by Cal- Creek Placers, Inc., about four miles of road was built onto the property, the cabin repaired and a little drilling done with a light drill in the summer of 1950, looking for gold but bedrock was not reached. After the samples from drilling were brought out,our attention was called to the fact that Monazite was found in the samples of sands.

In the summer of 1951 we had ten shallow pits dug to get samples for monazite examination. These were taken by Engineer Mark Evans, by removing two feet of overburden, then going two feet into the virgin gravels for the samples.

Work was stopped due to lack of finances.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

7- (b) Seventy miles south of Cal-Creek property there are 2 or three large dredges working on Monazite properties, with excellent production results.

On Ruby Meadows, 15 miles south of the Cal-Creek property, extensive drilling was done in 1951 and results of Monazite showing were so good that a dredge is to be operated there in the summer of 1952.

Sampling was done on the Marshall Lake Meadows in 1951 with Monazite findings so good that drilling is to be done in 1952. This property lies at the upper end of Union Creek valley, about 10 miles west of Cal-Creek properties and drains greatly into the Cal-Creek valley.

In the Warren Meadows drilling was done by the Bureau of Mines and results justified putting a dredge in to rework the old placer ground. This is 40 miles south-east of the Cal-Creek properties

On the old Idaho-Klondike property now owned by Mark Evans, a report from the Bureau of Mines of Idaho, showed evidence of Monazite as well as other rare earth minerals as reported in his attached report. This property lies immediately upstream from the Cal-Creek ground.

All of these above properties are in the same geological formation as the Cal-Creek property. It was only worked for gold however.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash

7 (c) Copy of report on Cal-Creek Placers by Mark Evans, Mining Geologist.

Dr. W. W. Wick, Pres., Cal-Creek Placers, Inc.
Enumclaw, Washington.

Dear Dr. Wick:-

Your property on California Creek in the Warren and Marshall Lake Mining Districts lies downstream from my property and the same minerals should be present as it is a continuation of the gravels I worked upstream.

A samples of black-sand concentrate sent to the Bureau of Mines at Moscow, Idaho in 1937 showed the following minerals; Magnetite, Ilmenite, Rutile and Brookite, Samarskite, Zircon, Monazite, Xenotime-ytrium, Erbium, Cerium Phosphate, Garnets, a Cerium-lanthanum phosphate, and a few apparently rare minerals in small amounts not identified. The gold content of the gravels from which these ~~xxxxxx~~ sands were taken ran up to twenty dollars a yard.

A sample of this sand sent to Edwin J. Carlson of the Atomic Energy Commission in Boise, Idaho, in 1949 gave the following: "Equivalent of 18% Monazite or .5% Th O_2".

You have the results of my sampling of your property in the summer of 1951 in which ten samples taken over a great area, all showed radio-active minerals, and as they were all surface samples there should be a greater concentration of the rare earth minerals with depth. An accurate estimate of yardage cannot be given until the surface is surveyed and a numer of test holes determine the depth. I would assume there were from fifty to a hundred million yards of gravel on this property.

For Form MF 100

7 (c) continued.

The valley of California Creek was made by a preglacial River of considerable size and it eroded the contact of the intrusive magma and the overlying sedimentary rocks which is the natural occurance of the rare earth minerals and they are known to occur on the north side of War Eagle Mountain and in the Hanging-Valley above Union Creek. After the ice sheet melted the old river was diverted by stream-piracy and only the smaller stream left in the valley, this indicating that you may expect the concentrates of an area many times the size of the present valley.

The ground water standing in the valley gravels has prevented prospecting by the early day miners but would offer no problem for drilling. I recommend that it be drilled extensively to determine the extent and amount of the gravels and the gold and rare earth mineral content. Because of the steep gradient of the creek below the deposit, it is a natural hydraulic proposition and the ten foot average snowfall will furnish ample water for a long season.

Very Sincerely Yours

(signed) Mark Evans.

Mining Geologist.

Box 693, Wallace, Idaho.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

12- (c) 1-Estimated yardage of gravel deposit is 50 to 100 million cubic yards. Marketable mineral content will have to be determined by drilling in 1952.

(2) Map is attached to form MF 103 since this report is made showing changes in conditions of the property and increased size as indicated by work in 1951.

(3) The gravel is medium fine, loose and contains some boulders more than one foot in diameter, probably not more than one percent. There are some boulders that run as high as six feet in diameter but they are not numerous. Tests indicate that the fine sands run about 30 percent of the total yardage, perhaps more. Other gravels are the right size for easy hydraulic handling.

(4) Bedrock has not been reached on the Cal-Creek property so exact form is not known. However, on the Idaho-Klondike property immediately upstream from Cal-Creek, where a drift mine was working with the drift on bedrock, it was found to be rotten granite, fairly even and soft, easily removable by hydraulic water pressure.

(5) The overburden is an average of two feet deep, composed of rotten wood and decomposed forest material, loose, fine texture, easily removed.

(6) Based on the gravel exposed, there is an estimated reserve yardage of from 50 to 100 million cubic yards.

For Form MF 100

Cal-Creek- Placers, Inc.
1537 Cole St., Enumclaw, Wash.

13- It is 14 miles to Burgdorf, the nearest town for supplies. Employees will live on the property.
McCall, the nearest shipping point by rail, is 40 miles.
There are 14 miles of good forest road and the rest is county and state roads.

14- The water supply is from Union and California Creeks and is ample for all purposes at all seasons of the year.

15- Noo power is used except gasoline and deisel oil. There is ample water to develop electricity for lights if needed later on.

16- In the summer of 1951 there were three men employed in getting the road in shape and in digging the test pits for samples. All were laborers, except engineer who supervised the work and did the sample cutting.

17- There is a log cabin on the property, in good condition, large enough to sleep four and to feed eight or ten, complete with dishes and cooking utensils and good cook stove.
Two tents are available with cots to sleep six. These are on the property. The company owns no other equipment.

18- The ground is ideal for hydraulic operation, having a gradient of 250 to 300 feet to the mile, with ample room at the lower end of the property for all waste disposal.

(*b*) If deposit is o[illegible] Does not apply

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer: See attached sheets.

(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.
Attached sheet.

14. Water Supply:

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

15. Power:

State amount of power used, rate per hour, and source thereof. None required.

16. Labor:

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

17. Equipment and Facilities: Attached sheet

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.
Attached sheet

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

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.

CAL-CREEK PLACERS, Inc.
(Name of company)

By W W Beck
(Signature of authorized official)

February 23- 1952.
(Date)

President.
(Title)

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

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

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-2452
Metal or Mineral
Date Received 3-28-52
Amount $
Participation (Government %)

Name and address of applicant

CAL-CREEK PLACERS, Inc.
1537 Cole St.
Enumclaw, Washington.

Date February 23- 1952.

If you have already filed MF-100, give date filed May 26- 1951, type of assistance requested Exploration Prospecting $3,000,

DMA Docket Number (if available) ~~DMA-1280X~~

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.

   Attached sheet

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

   Property owned

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

   Attached sheet

   NOTE: (1) If both areas are the same, 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?

   Monazite

   (*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.

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Attached sheet

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. Attached sheet

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

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.

   Attached sheet

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.

   Attached sheet

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.

   Attached sheet

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

   (*a*) Rented Attached sheet

   (*b*) Purchased Attached sheet

   (*c*) Furnished by you Attached sheet

   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.

   Attached sheet

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.

   Attached sheet

10. (*a*) How much are you prepared to invest in the proposed project? $3000.00

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

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

Attached sheet

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.

CAL-CREEK PLACERS, Inc. (Name of company) By W.W. Beck (Signature of authorized official)

February 23, 1952. (Date) President. (Title)

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

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

For Form #MF-103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

1- (a)- The property consists of 5 groups of mining claims, of 160 acres each, a total of 800 acres, located on Union and California Creeks in Idaho County, Idaho, being 14 miles from Burgdorf, in the Warren-Marshall Lake Mining Districts.

(b)- The property is owned by Cal-Creek Placers, Inc.

(c)- It consists of the Paul group, 1000 feet by 6970 feet; Tonopah group, 1080 by 5280 feet; Goldfield group, 1320 by 5280 feet, Union group, 1080 by 5280 feet and the Gold Dust group, 1320 by 5280 feet, recorded in the office of the Idaho County Clerk, Grangeville, Idaho.

(Note) Both areas are the same.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

2- (b) This property lies in the valleys of Union and California Creeks and was formed by the wearing away of the hills and deposited in the creek valleys, the erosion process having worn away about 6000 to 7000 feet of the original formation. According to the report of the U. S. Bureau of Mines, this is classed as good hydraulic property, the gradient being from 250 feet to 300 feet per mile, sufficient to hydraulic but not enough to have carried away the gravels. The gravel bed is from 300 to 1700 feet wide and contains about 600 acres of workable gravel, mostly of the size for hydraulic operation. There are some large boulders running to 5 feet in diameter. These are readily handled by drag line or donkey. The property has been prospected enough and tested enough to make it a good prospect for drilling and deeper testing.

A map is attached.

Test pits were dug two feet into the virgin gravel for the samples which assayed as follows:-for monazite.

#1- Trace-	#2- Nil	#3- 3.1%
#4- Nil-	#5- 0.1%	#6- Nil
#7- Nil-	#8- Nil	# 9- Trace
#10- Trace.		

This average of .32% seems to indicate justification for deeper drilling and testing.

For Form MF 103.

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

<u>Correction on 3- (a) Should read as follows:-</u>

3- (a) The total cost of the project will be $25,643.00

For Form MF-103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

3- (a) It is proposed to run six or seven readways across the property at approximate points indicated on the map, drilling a row of holes on each readway and digging a pit at each end of each row to determine depth and condition of bedrock and nature of formation. This will give a general picture of the formation and values found on most of the property. Should drilling of these holes indicate need for more drilling it can be done.

The total cost of the project will be $26,637.00

(b) It will require three months to start and complete the proposed work, including moving in and out. Drilling will be arranged through the C. Kirk Hillman Co., of Seattle.

Since drilling equipment will be rented it will be advisable to know as early as convenient regarding the granting of the loan so equipment may be arranged for before it is all taken up.

The money will not be needed until June 15th however.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

4- The entire valley is gravel bearing except the lower half of the Paul claim and the upper portion of the Gold Dust claim where the gradient was too great to hold the gravel.

Two additional claims will be filed on, adjoining the east side of the property, this having been explored and justifying location.

The location of the proposed work is indicated by the broken red lines on the map. There will be pits dug in addition to the drilling, to try to expose bedrock.

Map is attached.

For Form #MF-103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

5- There is a cabin in good condition, located at the junction of California and Union Creeks, large enough to sleep four and to cook for eight or ten. Additional sleeping quarters will be provided in tents which are on the property. They will accomodate six for sleeping in addition to the room in the cabin.

There is a complete cooking outfit, good stove and dishes and cooking utensils. No additional expense will be incurred to provide living quarters for a crew, except one tent and some bedding.

For Form MF 103

Cal-Creek Placers, Inc.,
1537 Cole St., Enumclaw, Wash.

6-	One tent- 14 X 16- - - - - - - - - - - - -	90.00
	One tent stove- - - - - - - - - - - - - -	35.00
	15 blankets- - - - - - - - - - - - - - - -	112.50
	5 pillows- - - - - - - - - - - - - - - - -	35.00
	10 pillow slips- - - - - - - - - - - - - -	12.50
	20 sheets - - - - - - - - - - - - - - - -	50.00
	Lumber for tent floor and sides- - - - -	300.00
	5 pads for cots - - - - - - - - - - - - -	40.00
		$675.00

All other buildings and equipment is in good order.

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash,

7 (a)- Rented- Complete drilling outfit- 3 months- - $3,000.00

Bull dozer with operator- 2 months- - - - - - 6096.00

(b)- Purchased- 3/4 ton pickup truck, 4 wheel drive (used) 1200.00

(c) Furnishedby us- Cabin- 2 beds- 6 cots- cook stove- cooking equipment and dishes. No rental or depreciation.

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

8- 1 driller- @ 2.25 per hr, with board and bed and time and one half for Saturdays- 3 months- - - - - - $1398.00

1 Panner-driller helper- @2.25 per hr, with board and bed, time and half for Saturdays- 3 months- - - - - 1398.00

3 laborers @ 1.75 per hr, with board and bed- 3 months time and half for Saturdays- -- - - - - - ---- 3276.00

1 Cook- @250.00 per month- 3 months - - - - - - - - - 750.00

1 Mining engineer-foreman- 4 months @ $700.00 - - - 2800.00

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

2 *

9-	1 tent- 14 X 16- - - - - - - - - - - - - - - - - -	$90.00
	1 tent stove- - - - - - - - - - - - - - - - - - - -	35.00
	15 blankets- @7.50- - - - - - - - - - - - - - - -	112.50
	5 pillows @ 7.00 - - - - - - - - - - - - - - - -	35.00
	10 pillow slips- @ 1.25- - - - - - - - - - - - -	12.50
	20 sheets- - @2.50 - - - - - - - - - - - - - - -	50.00
	Lumber for tent floor and sides. - - - - - - - -	300.00
	5 pads for cots - - - - - - - - - - - - - - - - -	40.00
	Social Security and Retirement - - - - - - - - - -	300.00
	Food for 3 months, 7 men - - - - - - - - - - - -	1500.00
	Gas and oil, 3 months- - - - - - - - - - - - - -	450.00
	Powder and fuse and caps- - - - - - - - - - - -	250.00
	Accounting - - - - - - - - - - - - - - - - - - -	300.00
	Assaying- -	1000.00
	Incidentals and unexpected repairs etc., travel expenses to and from mine- - - - - - - -	1250.00

For Form MF 103

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

11- The Cal-Creek property is located near the center of the granite belt running through Idaho, where the Monazite deposit is found in the granite formation. With these deposits found closely to the NorthEast, East, South and West in the same geological formation which has been proven by drilling and dredging, it is logical to believe the same Monazite deposit has taken place in the valleys of the California and Union Creeks on which are located the Cal-Creek property.

Form MF-100
(May 1951)

U. 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-2452

Date received 3-28-52

CAL-CREEK PLACERS, Inc.
1537 Cole St
Enumclaw, Wash.

Name and address of applicant

Date Feb. 23- 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? Monazite Prospecting.
   (*b*) What are the byproducts, if any? Gold- Garnets
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: Hydraulic placer ground
   (*a*) Linear feet of shafts None
   (*b*) Linear feet of drifts and crosscuts None
   (*c*) Linear feet of tunnels or adits. None
   (*d*) Linear feet of other mine openings (explain briefly) None

   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. Attached sheet
   (*b*) Mining district. Marshall Lake- Warren
   (*c*) Township, Section, Range. Do not know
   (*d*) County, State. Idaho County, Idaho.

DEPARTMENT OF THE INTERIOR
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4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated. No
   (*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 2 years
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. Attached sheet.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation. Attached sheet
   (*b*) State briefly the known history and production of adjoining and neighboring properties. Attached sheet
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
   Attached sheet

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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)
W. W. Wick, Enumclaw, Wash,	Pres- D	None	20,000	50,000	None	None	
Albert Z. Druse- 1708- 16th Ave, So. Yakima, Wash	V. Pres. D	None	20,000	50,000	None	None	
A. J. Palmquist, Enumclaw Wn	Sect-Treasx D	None	25,000	50,000	None	None	
Mark Evans, Wallace, Idaho		None	20,000	50,000	None	None	
Helen Schwartze, Yakima, Wash.		None	15,000	50,000	None	None	
Frances Evans, Palo Alto, Cal		None	50,000	50,000	None	None	
Mrs Helen Palmquist-	Enumclaw, Wn	None	50,000	50,000	None	None	
Helen Wick, Enumclaw, Wash		None	20,000	50,000	None	None	
	Total	None	x x x x x	400,000	None	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	$ 15,000	$ 10,067.50	$ 0.01	424,270	None
Preferred stock	$ None	$	$		

*Indicate period covered.

10. Production:

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

12. Ore or Mineral Reserves: Does not apply

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

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

3- (a)- Cal-Creek Placers, Inc., is located 14 miles north of Burgdorf, the nearest town and is 40 miles north west from McCall, the nearest shipping point by rail

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

6-(a) W. W. Wick, Pres., retired physician, has been connected with mining operations in 1930, which were forced to close on account of lack of finances.

Albert Z. Druse, Vice Pres., n ow troop steward on Government transport Gen. Funston., has been in charge of mining hotels for Pacific Coast Coal Co., until closing of the mines.

Albert Palmquist, an active druggist, owning a drug store in Enumclaw, Wash. He is Sect. Treas. Has done a great deal of prospecting in Oregon for placer properties.

Accounting is done by Radliff and Hansen, accountants in Enumclaw, Wash.

(b) All field work is in charge of Mark Evans, a geological mining engineer of over thrity years experience, a graduate of Stanford University.

A competent drilling crew will be employed for drilling. Drilling will be arranged for through the C. Kirk Hillman Co. of Seattle.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

7- (a) Four of these claims were located by A. E. Nugent and C. E. Wolfe of Wallace, Idaho, and were sold to W. W. Wick, Albert Druse and Albert Palmquist who in turn transferred them to the Cal-Creek Placers, Inc., for stock. The Paul claim was acquired from Mark Evans for stock. The original owners of all these claims did no more than assessment work and surface sampling. One shaft was sunk to a depth of about 25 feet, looking for gold. There has been no production as work was not done deep enough to reach bedrock.

Since being acquired by Cal- Creek Placers, Inc., about four miles of road was built onto the property, the cabin repaired and a little drilling done with a light drill in the summer of 1950, looking for gold but bedrock was not reached. After the samples from drilling were brought out,our attention was called to the fact that Monazite was found in the samples of sands.

In the summer of 1951 we had ten shallow pits dug to get samples for monazite examination. These were taken by Engineer Mark Evans, by removing two feet of overburden, then going two feet into the virgin gravels for the samples.

Work was stopped due to lack of finances.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

7- (b) Seventy miles south of Cal-Creek property there are 2 or three large dredges working on Monazite properties, with excellent production results.

On Ruby Meadows, 15 miles south of the Cal-Creek property, extensive drilling was done in 1951 and results of Monazite showing were so good that a dredge is to be operated there in the summer of 1952.

Sampling was done on the Marshall Lake Meadows, in 1951 with Monazite findings so good that drilling is to be done in 1952. This property lies at the upper end of Union Creek valley, about 10 miles west of Cal-Creek properties and drains greatly into the Cal-Creek valley.

In the Warren Meadows drilling was done by the Bureau of Mines and results justified putting a dredge in to rework the old placer ground. This is 40 miles south-east of the Cal-Creek properties

On the old Idaho-Klondike property now owned by Mark Evans, a report from the Bureau of Mines of Idaho, showed evidence of Monazite as well as other rare earth minerals as reported in his attached report. This property lies immediately upstream from the Cal-Creek ground.

All of these above properties are in the same geological formation as the Cal-Creek property. It was only worked for gold however.

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

For Form MF 100

7 (c) Copy of report on Cal-Creek Placers by Mark Evans, Mining Geologist.

Dr. W. W. Wick, Pres., Cal-Creek Placers, Inc.
Enumclaw, Washington.

Dear Dr. Wick:-

Your property on California Creek in the Warren and Marshall Lake Mining Districts lies downstream from my property and the same minerals should be present as it is a continuation of the gravels I worked upstream.

A samplex of black-sand concentrate sent to the Bureau of Mines at Moscow, Idaho in 1937 showed the following minerals; Magnetite, Ilmenite, Rutile and Brookite, Samarskite, Zircon, Monazite, Xenotime-ytrium, Erbium, Cerium Phosphate, Garnets, a Cerium-lanthanum phosphate, and a few apparently rare minerals in small amounts not identified. The gold content of the gravels from which these ~~xxxxxx~~ sands were taken ran up to twenty dollars a yard.

A sample of this sand sent to Edwin J. Carlson of the Atomic Energy Commission in Boise, Idaho, in 1949 gave the following: "Equivalent of 18% Monazite or .5% Th O_2".

You have the results of my sampling of your property in the summer of 1951 in which ten samples taken over a great area, all showed radio-active minerals, and as they were all surface samples there should be a greater concentration of the rare earth minerals with depth. An accurate estimate of yardage cannot be given until the surface is surveyed and a numer of test holes determine the depth. I would assume there were from fifty to a hundred million yards of gravel on this property.

For Form MF 100

7 (c) continued.

The valley of California Creek was made by a preglacial River of considerable size and it eroded the contact of the intrusive magma and the overlying sedimentary rocks which is the natural occurance of the rare earth minerals and they are known to occur on the north side of War Eagle Mountain and in the Hanging-Valley above Union Creek. After the ice sheet melted the old river was diverted by stream-piracy and only the smaller stream left in the valley, this indicating that you may expect the concentrates of an area many times the size of the present valley.

The ground water standing in the valley gravels has prevented prospecting by the early day miners but would offer no problem for drilling. I recommend that it be drilled extensively to determine the extent and amount of the gravels and the gold and rare earth mindral content. Because of the steep gradient of the creek below the deposit, it is a natural hydraulic proposition and the ten foot average snowfall will furnish ample water for a long season.

Very Sincerely Yours

(signed) Mark Evans.

Mining Geologist.

Box 693, Wallace, Idaho.

For Form MF 100

Cal-Creek Placers, Inc.
1537 Cole St., Enumclaw, Wash.

12- (c) 1-Estimated yardage of gravel deposit is 50 to 100 million cubic yards. Marketable mineral content will have to be determined by drilling in 1952.

(2) Map is attached to form MF 103 since this report is made showing changes in conditions of the property and increased size as indicated by work in 1951.

(3) The gravel is medium fine, loose and contains some boulders more than one foot in diameter, probably not more than one percent. There are some boulders that run as high as six feet in diameter but they are not numerous. Tests indicate that the fine sands run about 30 percent of the total yardage, perhaps more. Other gravels are the right size mfor easy hydraulic handling.

(4) Bedrock has not been reached on the Cal-Creek property so exact form is not known. However, on the Idaho-Klondike property immediately upstream from Cal-Creek, where a drift mine was working with the drift on bedrock, it was found to be rotten granite, fairly even and soft, easily removable by hydraulic water pressure.

(5) The overburden is an average of two feet deep, composed of rotten wood and decomposed forest material, loose, fine texture, easily removed.

(6) Based on the gravel exposed, there is an estimated reserve yardage of from 50 to 100 million cubic yards.

For Form MF 100

Cal-Creek- Placers, Inc.
1537 Cole St., Enumclaw, Wash.

13- It is 14 miles to Burgdorf, the nearest town for supplies. Employees will live on the property.
McCall, the nearest shipping point by rail, is 40 miles.
There are 14 miles of good forest road and the rest is county and state roads.

14- The water supply is from Union and California Creeks and is ample for all purposes at all seasons of the year.

15- Noo power is used except gasoline and deisel oil. There is ample water to develop electricity for lights if needed later on.

16- In the summer of 1951 there were three meh employed in getting the road in shape and in digging the test pits for samples. All were laborers, except engineer who supervised the work and did the sample cutting.

17- There is a log cabin on the property, in good condition, large enough to sleep four and to feed eight or ten, complete with dishes and cooking utensils and good cook stove.
Two tents are available with cots to sleep six. These are on the property. The company owns no other equipment.

18- The ground is ideal for hydraulic operation, having a gradient of 250 to 300 feet to the mile, with ample room at the lower end of the property for all waste disposal.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

(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: Attached sheet.

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

15. Power: Attached sheet

State amount of power used, rate per hour, and source thereof. None required.

16. Labor:

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

17. Equipment and Facilities: Attached sheet Attached sheet

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. Attached sheet Attached sheet

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.

CAL-CREEK PLACERS, Inc.
(Name of company)

By [signature]
(Signature of authorized official)

February 23- 1952.
(Date)

President.
(Title)

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

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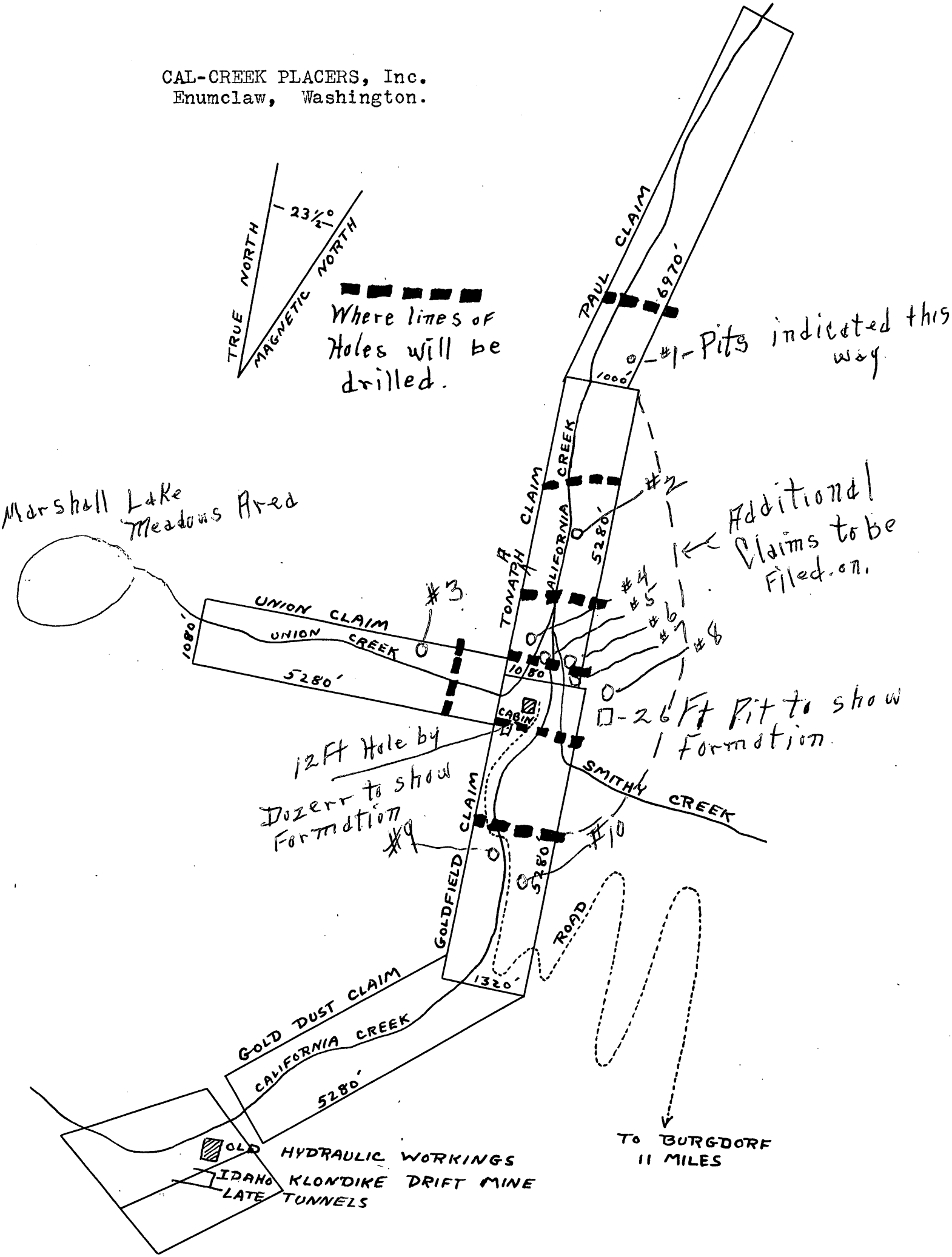
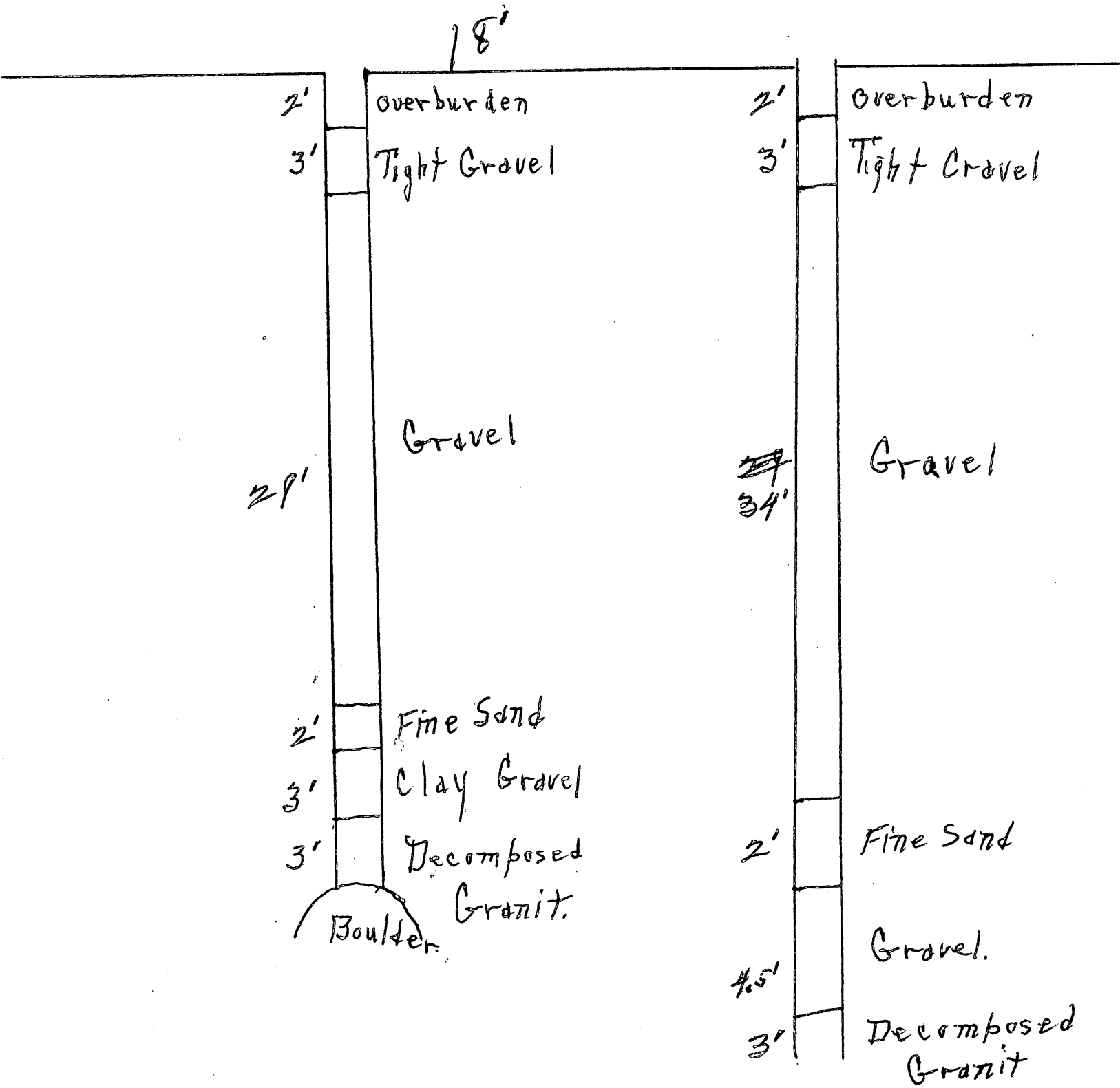
CAL-CREEK PLACERS, Inc.
Enumclaw, Washington.





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