DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMA~~ Docket No. 2551

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 and USGS. One copy was retained by Region III.

To: Code 700, Rm. 4640 Date 5-26-52

To: Op Comm Date 7-18-52

To: Op Comm Date 10-8-52

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

To: _____ Date _____

DO NOT DETACH

CONTROLLED DOCUMENT

IN REPLY REFER TO:

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

October 9, 1952

Memorandum

Re: DMEA-2551
Andes Mine
San Diego County, Calif.
Tin
$30,000

To: Mr. E. Wm. Ellis

From: E. T. McKnight

Subject: Recommendation for denial

The properties were located on the outcrop of a partly decomposed granidorite by use of a divining rod. The field team has examined the property and can find no evidence of tin.

I agree with the field team's recommendation that this application should be denied.

Edwin T. McKnight

Edwin T. McKnight
Geologist

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

October 9, 1952

Memorandum

Re: DMEA-2551
Andes Mine
San Diego County, Calif.
Tin
$30,000

To: Mr. E. Wm. Ellis

From: E. T. McKnight

Subject: Recommendation for denial

The properties were located on the outcrop of a partly decomposed granidorite by use of a divining rod. The field team has examined the property and can find no evidence of tin.

I agree with the field team's recommendation that this application should be denied.

Edwin T. McKnight
Geologist

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 10 1952

TIN PROCESSING CORPORATION - LONGHORN SMELTER

CERTIFICATE OF ANALYSIS

Description MISC. GRAB SAMPLES Date June 2, 1949 19__

Mrs. S. F. Edwards

781 Holt Ave., El Centro, California

Herbert H. White
Chief Chemist

	SN
B-1524 Sample #1	.39
B-1525 Sample #2	.76

This is an exact copy of the original, which was sent to the Honorable J. Hardin Peterson, at the time bill was being enacted.

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

0

ASSAYERS
ORE TESTING
MILL BUILDING
GROCH CYANIDE EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

TUNGSTEN OXIDE
WO3-$20.00 per Unit.

GOLD $ 35.00 Per Ounce

SILVER $ 91¢ Per Ounce

SUBMITTED BY Mr.S.V.Edwards
ADDRESS 781 Holt Ave.
DATE RECEIVED El Centro,California

Owner's Mark or Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
Sample Altered Granite Andee Mine	0.04	$1.40	0.56	52¢	$1.92	0.68% WO_3	-$13.60	

CHARGES $ 5.50 Paid

ASSAYER Frank Groch

DATE March 22,1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

METALLURGISTS
ORE TESTING
MILL BUILDING
GROCH CYANIDE EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

SUBMITTED BY Mr.S.F.Edwards
ADDRESS 781 Holt Ave.
DATE RECEIVED El Centro,Cal.

GOLD $ _____ Per Ounce
SILVER $ _____ Per Ounce

Assay Number	Owner's Mark or Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
	Sample No.1						1.13% Tin		
	Sample No.2						1.53% Tin		

CHARGES $ 5.00
Paid
50

ASSAYER Frank Groch
DATE June 6,1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

ASSAY CERTIFICATE

GROCH ENGINEERING COMPANY

MINING • ELECTRIC ENGINEERING • ASSAY LABORATORY

ORE TESTING • MILL DESIGN

634 WEST NINTH STREET

LOS ANGELES 14, CALIFORNIA

OWNERS

GROCH BOMBARDMENT ROTATION

MACHINE PATENTS

10 FOOT DIAMETER

20 FOOT DIAMETER

30 FOOT DIAMETER

GROCH CYANIDE AGITATOR

CERTIFIED TO: Farryman & Edwards

[illegible] Holt Ave.

[illegible] El Centro, California

DATE RECEIVED

GOLD $ Per Ounce

SILVER $ Per Ounce

Assay Number	Owner's Mark of Description	Total Gold and Silver	OTHER MATERIALS %	Value
	We tabled 540 [illegible]	[illegible] 15 mesh [illegible]		
	This ore was [illegible] Minus 30 mesh [illegible] product [illegible] We recover[illegible] and it assay[illegible] We made a fi[illegible] magnetic sep[illegible]	[illegible] mesh, letting the [illegible] 30 mesh [illegible] and Platinum [illegible] amalgamated. [illegible] put over the Amen		

Pa[illegible]

Frank Groch

CHARGES $ [illegible] December 8, 1940

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

FILE COPY
700 SURNAME:

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

FL Knouse
McKnight
Ellis
Thayer
Hedges
Johnson

OCT 8 1952

Mr. L. F. Edwards
Route 1, Box 148-A
Campo, California

Re: Docket No. DMEA-2551 (Tin)
Andes Mine
San Diego County, California

Dear Mr. Edwards:

Reference is made to your application for Government aid on the captioned exploration project in the amount of $30,000.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, 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, and an examination of the property concerned reveal that the probability of disclosing minable reserves by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

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

Sincerely yours,

10-8-52

U. O. Milvenan

Administrator

FLKnouse/jem
10/6/52
cc to: Adm. Reading File
Docket
Messrs. A.Renick-R.3061
E.T.McKnight-R.4204 GSA
Ellis Knouse
Opr. Committee
Field Team, Reg. III (2)

10/6/52 gla

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

October 2, 1952

Re DMEA 2551
S. F. Edwards,
Andes Mine
San Diego County, Calif.
Tin

Memorandum

To: E. W. Ellis

From: Abbott Renick, Base Metals Branch

Subject: Docket DMEA 2551

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 2 1952

The writer concurs with the field team recommendation dated September 15, 1952, reporting, "According to the examining engineer, no tin mineralization was observed at the Andes property. Samples were taken by the examining engineer at places where the applicant claimed to have received tin assays. The analysis of these samples by the Hydrometallurgical and Ore Dressing Branch indicated that the material does not contain any tin of appreciable quantity.

The examining engineer has concluded that the property does not warrant Government assistance in exploring the property."

Abbott Renick

Abbott Renick

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 9-29-52

REFERRED TO:

1. Code 700-Pm 4640
2.
3.
4.

FOR:

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

REMARKS:

1st copy St Team Report

Check (X) before the items needing attention.

Adams (Jl)
Initials of sender.

GPO 16—63815-1

9/29/52 gm

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

Office of
Executive Officer
DMEA Field Team
Region III

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

September 23, 1952

Memorandum

To: G. C. Selfridge, Acting Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2551 (Tin), S. F. Edwards, Andes Mine, San Diego County, California

Reference is made to your subject letter to me, dated July 18, 1952.

The subject property has been examined by one of my mining engineers and four copies of a report - DMEA-2551 (Tin), Andes Claims, S. F. Edwards property, San Diego County, California by Benjamin H. Sheahan, Mining Engineer, U. S. Bureau of Mines, dated September 15, 1952, are attached.

According to the examining engineer, no tin mineralization was observed at the Andes property. Samples were taken by the examining engineer at places where the applicant claimed to have received tin assays. The analysis of these samples by the Hydrometallurgical and Ore Dressing Branch indicated that the material does not contain any tin of appreciable quantity.

The examining engineer has concluded that the property does not warrant Government assistance in exploring the property.

The subject docket is being returned herewith.

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

Attachments

Copy to E. H. Bailey, USGS

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2551 (tin), Andes Claims
S. F. Edwards property

San Diego County, Calif.

Benjamin H. Sheahan, Mining Engineer
U. S. Bureau of Mines

September 15, 1952

Docket No. DMEA-2551 (tin), ANDES MINE, San Diego County, Calif.

Name and address of applicant: Mr. S. F. Edwards
Route 1, Box 148-A,
Campo, California

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

No tin mineralization was observed at the Andes property. The property consists of 13 unpatented mining claims 5.8 miles by road southeast of Campo, San Diego County, Calif. The owner of the claims, Mr. S. F. Edwards, has applied for Government aid to explore a barren granodiorite section of the mountain range.

Conclusions are that no further work is justified at the property. An exploration loan is not recommended.

The property was examined on August 18, 1952 between the hours of 2:00 P.M. and 7:00 P.M. The engineer was accompanied on the examination by the applicant S. F. Edwards and his partner, J. Slagill, Jr. of 3707 Harris Street, Lemon Grove, Calif.

NAME AND LOCATION OF PROPERTY

The property was named the Andes and is located in sec. 19, T. 18 S., R. 6 E., S.B.B.&M., at an altitude of 2,800 feet in the Laguna Mountains, San Diego County, Calif.

The nearest town from the claims where Mr. S. F. Edwards has made his home is Campo, Calif., on State Highway 94. The distance is 5.8 miles (see fig. 1A).

CONDITION AND SEASONAL ACCESSIBILITY OF ROAD TO PROPERTY

State Highway 94 is an all weather paved two lane road. The 1.9 mile stretch of road from the highway to the property follows along the

bottom of Smith Canyon and during the rainy season this one lane dirt road would not be passable with a standard model automobile.

COMPETENCY OF APPLICANT AND OPERATING PERSONNEL

The applicant has done 150 feet of exploration work at a few locations shown on figure 1B, and has constructed a cabin. A devining rod was used by the applicant to select the position of the exploration work. The applicant is incompetent to conduct the exploration project which he has requested.

APPLICANTS PROPERTY RIGHTS

The applicant holds 13 unpatented mining claims which he located in 1947 and recorded at San Diego, California in Book 4141, page 194. Claim corners and location discovery workings are missing on most of the claims. Mr. Edwards showed the examining engineer receipts for taxes which he had paid on this unpatented property.

Mr. J. Slagill, Jr., a construction workman, is Mr. Edward's son-in-law and partner.

DESCRIPTION OF THE PROPERTY

Surface facilities consist of a five-room cabin, a few hundred feet of used 3/4-inch pipe, and an assortment of hand tools.

Workings on the property consist of several open cuts, two short adits and a 30 foot shaft. Total footage of these workings amounts to about 150 feet (see fig. 1B).

Samples were taken by the engineer at the places where the applicant claimed to have received tin assays included with the docket. Figure 1B, a sketch map shows the location of samples taken by the

engineer and analyzed by U. S. Bureau of Mines, Hydrometallurgical and Ore Dressing Branch, Reno, Nevada:

Sample No.	Width/ft.	%, Sn
S-1	3	*0.03
S-2	3	*0.03

*Less than.

GEOLOGY AND ORE RESERVES

No tin mineralization was observed. The workings have all been excavated in partly decomposed granodiorite.

There are no ore reserves and there has never been any production.

AVAILABILITY OF MANPOWER, MATERIALS, WATER

Supplies are usually obtained at San Diego, Calif., 52.8 miles west of the property.

A spring near the cabin supplies about 10 gallons of water per minute.

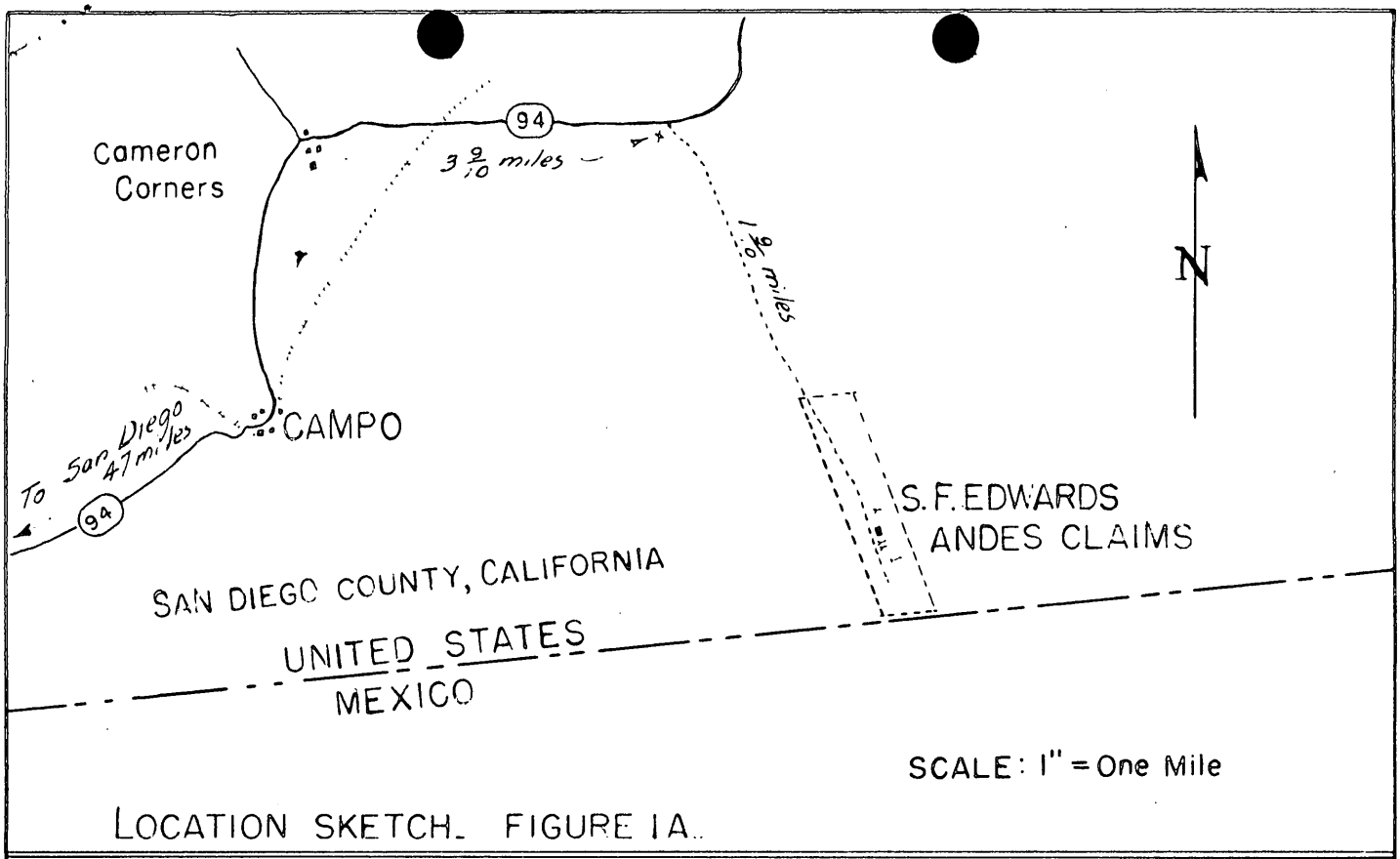
The current wage scale for miners is $16.00 per day, according to Mr. J. Slagill, Jr.

The applicant has no definite exploration program. He desires to drive adits into the mountain side at locations which he has selected by use of his divining rod.

The applicant and his partner were informed that they had no definite exploration program. The engineer asked the applicant to show him all workings and the occurrence of any tin mineralization that he had ever found on the claims.

The applicants divining rod consisted of a 1/2-inch diameter, willow branch about 2 feet in length with a weight attached to one end.

Two samples taken by the applicant and mailed to the U. S. Bureau of Mines were analyzed and contained less than 0.03%, Sn.



LOCATION SKETCH. FIGURE 1A.

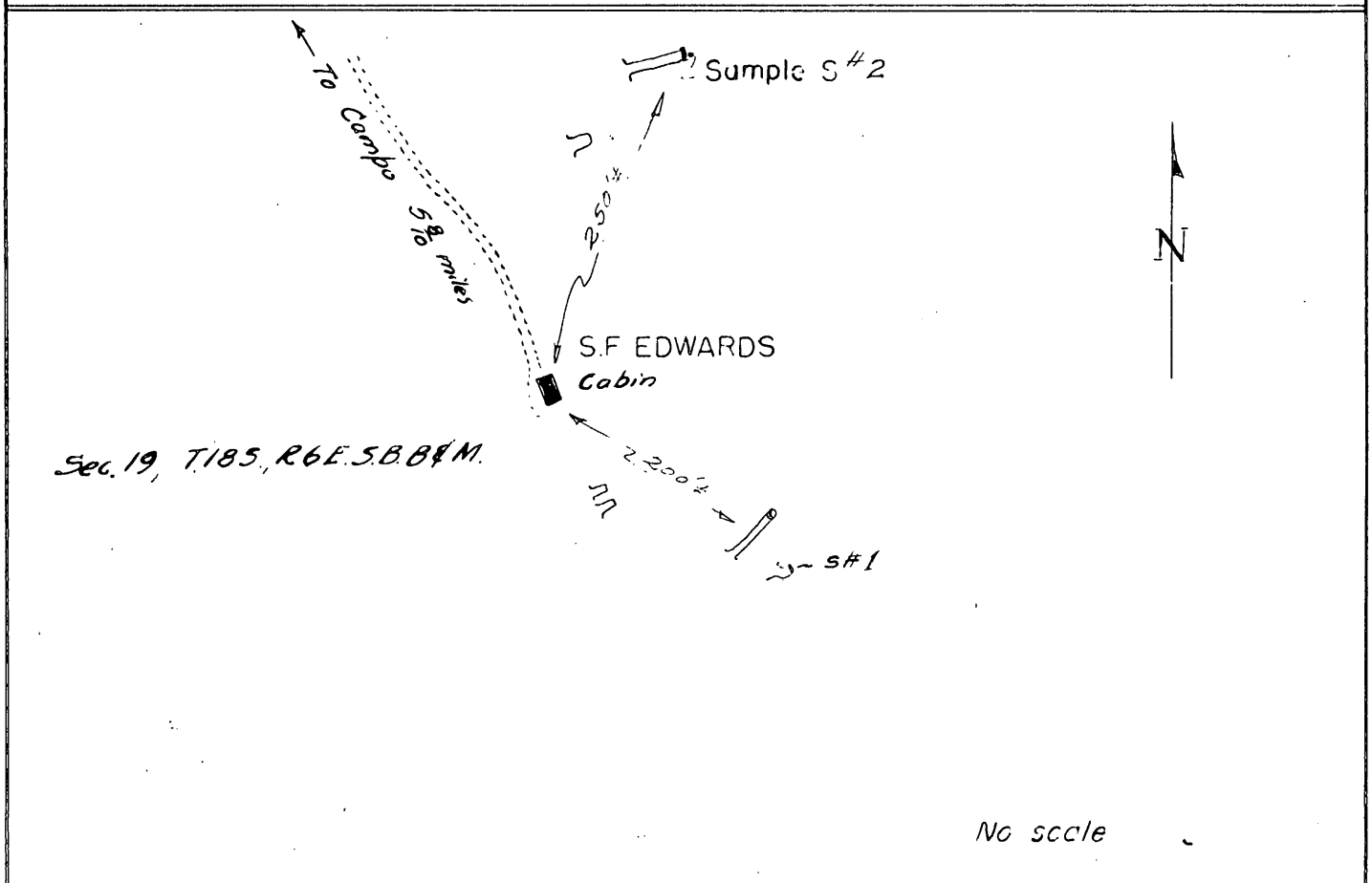


FIGURE 1B SKETCH MAP - SAMPLE LOCATIONS

ANDES PROPERTY, DMEA 2551 (Tim) SAN DIEGO COUNTY, CALIFORNIA

MF-103
(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-2551
Metal or Mineral
Date Received 5-26-52
Amount $
Participation (Government %)

Name and address of applicant

S. F. EDWARDS
Route 1, Box 148-A
Campo, California

Date May 13, 1952

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

DMA Docket Number (if available) .....

INSTRUCTIONS

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

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

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

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
MAY 26 1952

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

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

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

#1. (a) Northwest 1/4 of the Northwest 1/4 of Section 19, Range 6 east, township 18
Northeast 1/4 of the Northeast 1/4 of Section 24, Range 5 east, township 18
(b) I am the owner.
(c) Note 1, Both areas are the same.

#2. (a) Tin with by products wolframite tungsten, platinum.
(b) Distinctive ore vein on top of the mountain, running northwest and southeast. Decomposed granite, consisting of quartz, tourmaline, gneiss, etc.
I have no engineering report in writing, but about a year ago, David Fitch, Consulting Engineer of LaJolla, California, gave the report to an adjoining property owner, that this was a very highly mineralized mountain. Both tin, tungsten and platinum assays, which I have taken from these claims, I am submitting with the application. If my application is approved the assay sheets need not be returned.

#3. (a) The proposed work will consist of tunneling 400 feet, repairing road, timbering tunnel, buying equipment, enlarging living quarters, electric line - $30,000.
(b) 30 days from time loan is granted, work will be well under way, and completed within 12 months.

#4. Map submitted with application.

#5. At present time, facilities, 5 room cabin, hand drills, and wheelbarrow.

#6. Additional facilities, dining room - $2,000, sleeping quarters - $2,000, bathroom and water heater for bathroom - $1,000.

#7. (a) Rented bulldozer - $50.00 per day, air compressor and air hammer - $25.00 per day, including operator.
(b) To be purchased if necessary, portable air compressor and air hammer, ore truck and track.
(c) Furnished by me - None

#8. Two miners, union scale per hour; one mucker, union scale per hour; one supervisor, $400.00 per month.

#9. Cannot answer with any accuracy.

#10. (a) What the government requires either in work or cash.
(b) I believe it is.

#11. I see no other condition or circumstances to be brought out.

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-2551

Date received 5-26-52

S. F. EDWARDS
Route 1, Box 148-A
Campo, California

Name and address of applicant

Date May 13, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

#1. (a) Cassiterite
(b) Possible wolframite tungsten and platinum

#2. Andes Mines
(a) 36 feet in shafts
(b) None
(c) 106 feet of tunnels, 32 feet of adits, two tunnels, 16 feet at foot of canyon
(d) In different locations there are four adits, ten feet long. No water troubles.

#3. (a) Five miles
(b) Campo
(c) Township 18, Section 19, Range 6
(d) County of San Diego, California

#4. (a) Yes, prospecting
(b) Owner

#5. Estimate production will start within 30 days of loan approval.

#6. Experience of operators
(a) Worked in mines for ten years in B.C. and Montana, owner and operator of Seeley Water Works. Sold out in 1948 to prospect these claims.
(b) Jesse Slagill, General Contractor, License No. 80838, Mining and prospecting for ten years.

#7. History
(a) Property was explored by licensed engineer and was found highly mineralized.
(b) None
(c) David Fitch of LaJolla, California, Consulting Engineer, reported highly mineralized.

#8. Not incorporated
(a) Partners - S. F. Edwards, Box 148-A, Campo, California
J. Slagill, Jr., 3707 Harris Street, Lemon Grove, California
(b) None
(c) None
(d) None
(e) None
(f) None
(g) None
(h) None

#9. Capital stocks, Issues - None

#10. Production - None

#11. Not in productive operation yet.

#12. Ore or mineral reserves
(a) 6,000 feet long, width unexplored as yet
(b) If deposit is other than placer
1. Tunnels at bottom of canyon. Sample No. 1 .39 tin adite 600 feet above lower tunnels. Assay No. 2 .76 tin, government smelter reports.
Assayer reports are No. 1 - 1.13% tin
Grouch Engineering Co. Sample No. 2 - 1.53% tin

2. Cannot be answered without further exploration.
(c) None

#13. Access Roads
Five miles to shipping point. Roads good.

#14. Plenty of water available for year round. Good springs.

#15. Power is available two miles.

#16. Labor
None employed but are available.

#17. Five room cabin in fair condition
Equipment - All hand tools

#18. Lacking power tools, track and cars, and air conditioning.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By ---
(Signature of authorized official)

(Date)

(Title)

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

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

DMEA-2551

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 2551

Date received 9-29-52

SEP 29 1952

S. F. EDWARDS
Route 1, Box 148-A
Campo, California

Name and address of applicant

Date May 13, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

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

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
1952 MAY 19 AM 8:45
SAN FRANCISCO, CALIFORNIA

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)
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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. No

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By ---
(Signature of authorized official)

(Date)

(Title)

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

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

MEALLURGISTS
GAS TESTING
MILL BUILDING
GROCH CYANIDE EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

GOLD $ _____ Per Ounce

SILVER $ _____ Per Ounce

SUBMITTED BY Mr.S.F.Edwards
ADDRESS 781 Holt Ave.
DATE RECEIVED El Centro,Cal.

Assay Number	Owner's Mark of Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
	Sample No.1						1.13% Tin		
	Sample No.2						1.53% Tin		

CHARGES $ 8.00
Paid
30

ASSAYER Frank Groch

DATE June 6,1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

METALLURGISTS
ORE TESTING
MILL BUILDING
GROCH CYANIDE EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

TUNGSTEN OXIDE
WO3-$20.00 per Unit.

GOLD $ 35.00 Per Ounce

SILVER $ 91¢ Per Ounce

SUBMITTED BY Mr.S.F.Edwards
ADDRESS 781 Holt Ave.
DATE RECEIVED El Centro,California

Assay Number	Owner's Mark of Description	Gold per Ton		Silver per Ton		Total Gold and Silver	OTHER MATERIALS		Total Value
		Oz. Troy	Value	Oz. Troy	Value		%	Value	
0	Sample Altered Granite Andes Mine	0.04	$1.40	0.56	52¢	$1.92	0.68% WO_3	-$13.60	

ASSAYER Frank Groch

CHARGES $ 5.50 Paid

DATE March 22,1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

Phone MUtual 0836

ASSAY CERTIFICATE

GROCH ENGINEERING COMPANY

MINING • ELECTRIC ENGINEERING • ASSAY LABORATORY
ORE TESTING • MILL DESIGN
624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA

OWNERS
GROCH BOMBARDING FLOTATION
MACHINE PATENTS
10 FOOT DIAMETER
20 FOOT DIAMETER
30 FOOT DIAMETER
GROCH CYANIDE AGITATOR

SUBMITTED BY Harryman & Edwards
ADDRESS 781 Holt Ave. El Centro, California
DATE RECEIVED

GOLD $ Per Ounce
SILVER $ Per Ounce

Assay Number	Owner's Mark of Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
	We tabled 340 pounds of your product-60# Mine ore reground to pass 15 mesh (140# Gravel Minus ¼" plus 15 mesh (140# Gravel minus 15 mesh This ore was tabled over a Dunham table, first passing thru a 30 mesh trommel, letting the Minus 30 mesh go over the table first, then we passed the minus 15 mesh plus 30 mesh product over the table. We recovered from the gold or high riffle a product, which carried Rhodium and Platinum and it assayed $141.80 per ton, including a little gold, all of which was amalhamated. We made a first concentrate from the lower riffles, which we dried and put over the Amen magnetic separator. These products we are holding.								

Part of the Rhodium-Platinum Recov.

CHARGES $

ASSAYERS Frank Groch

DATE December 8, 1949

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

TIN PROCESSING CORPORATION - LONGHORN SMELTER

CERTIFICATE OF ANALYSIS

Description MISC. GRAB SAMPLES Date June 2, 1949 19__

Mrs. S. F. Edwards

781 Holt Ave., El Centro, California

Herbert H. White
Chief Chemist

	SN
B-1524 Sample #1	.39
B-1525 Sample #2	.76

This is an exact copy of the original, which was sent to the Honorable J. Hardin Peterson, at the time bill was being enacted.

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

#1. (a) Cassiterite
(b) Possible wolframite tungsten and platinum

#2. Andes Mines
(a) 36 feet in shafts
(b) None
(c) 106 feet of tunnels, 32 feet of adits, two tunnels, 16 feet at foot of canyon
(d) In different locations there are four adits, ten feet long. No water troubles.

#3. (a) Five miles
(b) Campo
(c) Township 18, Section 19, Range 6
(d) County of San Diego, California

#4. (a) Yes, prospecting
(b) Owner

#5. Estimate production will start within 30 days of loan approval.

#6. Experience of operators.
(a) Worked in mines for ten years in B.C. and Montana, owner and operator of Seeley Water Works. Sold out in 1948 to prospect these claims.
(b) Jesse Slagill, General Contractor, License No. 80838, Mining and prospecting for ten years.

#7. History
(a) Property was explored by licensed engineer and was found highly mineralized.
(b) None
(c) David Fitch of LaJolla, California, Consulting Engineer, reported highly mineralized.

#8. Not incorporated
(a) Partners - S. F. Edwards, Box 148-A, Campo, California
J. Slagill, Jr., 3707 Harris Street, Lemon Grove, California
(b) None
(c) None
(d) None
(e) None
(f) None
(g) None
(h) None

#9. Capital stocks, issues - None

#10. Production - None

#11. Not in productive operation yet.

#12. Ore or mineral reserves
(a) 6,000 feet long, width unexplored as yet
(b) If deposit is other than placer
1. Tunnels at bottom of canyon, Sample No. 1 .39 tin adite 600 feet above lower tunnels. Assay No. 2 .76 Tin, government smelter reports.
Assayer reports are No. 1 - 1.13% tin
Grouch Engineering Co. Sample No. 2 - 1.53% Tin
2. Cannot be answered without further exploration.
(c) None

#13. Access Roads
Five miles to shipping point. Roads good.

#14. Plenty of water available foryear round. Good springs.

#15. Power is available two miles.

#16. Labor
None employed but are available.

#17. Five room cabin in fair condition
Equipment - All hand tools

#18. Lacking power tools, track and cars and air conditioning.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.
DMEA-2551

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 2551
Metal or Mineral
Date Received 9-29-52
Amount $
Participation (Government %)

Name and address of applicant

S. F. EDWARDS
Route 1, Box 148-A
Campo, California

Date May 13, 1952

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

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

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

#1. (a) Northwest 1/4 of the Northwest 1/4 of Section 19, Range 6 east, township 18
Northeast 1/4 of the Northeast 1/4 of Section 24, Range 5 east, township 18

(b) I am the owner.
(c) Note 1, both areas are the same.

#2. (a) Tin with by products wolframite tungsten, platinum
(b) Distinctive ore vein on top of the mountain, running northwest and southeast. Decomposed granite, consisting of quartz, tourmaline, gneiss, etc.
I have no engineering report in writing, but about a year ago, David Fitch, Consulting Engineer of LaJolla, California, gave the report to an adjoining property owner, that this was a very highly mineralized mountain. Both tin tungsten and platinum assays which I have taken from these claims, I am submitting with the application. If my application is approved the assay sheets need not be returned.

#3. (a) The proposed work will consist of tunneling 400 feet, repairing road, timbering tunnel, buying equipment, enlarging living quarters, electric line - $30,000.
(b) 30 days from time loan is granted, work will be well under way, and completed within 12 months.

#4. Map submitted with application.

#5. At present time, facilities, 5 room cabin, hand drills, and wheel barrow.

#6. Additional facilities, dining room - $2,000, sleeping quarters - $2,000, bathroom and water heater for bathroom - $1,000.

#7. (a) Rented bulldozer - $50.00 per day, air compressor and air hammar- $25.00 per day, including operator.
(b) To be purchased if necessary, portable air compressor and air hammer, ore truck and track.
(c) Furnished by me - None

#8. Two miners, union scale per hour; one muck, union scale per hour; one supervisor, $400.00 per month.

#9. Cannot answer with any accuracy.

#10. (a) What the government requires either in work or cash.
(b) I believe it is.

#11. I see no other condition or circumstances to be brought out.

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

June 2, 1952

Re: Docket DMEA-2551
S. F. Edwards, Campo, Calif.
Exploration loan, $30,000
Tin

Memorandum

To: Mr. E. Wm. Ellis, DMEA

From: Erwin J. Lyons, USGS

Subject: Docket DMEA-2551, S. F. Edwards, Campo, California

The applicant has requested an exploration grant to explore his property in San Diego County, California. Total estimated cost is $30,000. The project will consist of 400 feet of tunneling. Road repairs, building construction, power line construction, and purchase of equipment are included.

The applicant has furnished no information by which the project can be evaluated. Assays submitted do not give the type, location, or any other data concerning the samples assayed. The map accompanying the application is a sketch map which shows little more than the location of the property and the strike of the vein. It is therefore suggested that the application be referred to the field for review and appraisal.

Erwin J. Lyons

Erwin J. Lyons
Geologist

COPY

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

May 28, 1952

DMEA-2551-Tin
Exploration Loan
S. F. Edwards
Route 1, Box 148-A
Campo, California

Memorandum

To: E. William Ellis

From: Abbott Renick, Base Metals Branch

Subject: Application for DMEA assistance submitted by S. F. Edwards, Campo, California.

Applicant submits a request for a $30,000 tin exploration loan to consist of the following:

Adit work about 400 feet, road repairs (bulldozer work), equipment, revamping living quarters and a power line stated to be two miles.

Applicant reports four years prospecting on his property and submits results of tin assayson four samples:

June 6, 1947	Sample 1	1.13% Tin
June 6, 1947	Sample 2	1.53% Tin
June 2,1949	Sample B-1524	0.39% Tin
June 2, 1949	Sample B-1525	0.76% Tin

Information regarding these four samples is lacking. The applicant does not furnish any factual information regarding these four samples, namely the width sampled. Likewise the width of the reported mineralized zone is not stated.

Report of Investigations 3776, April 1946, Survey of Tin in California, page 14, refers to tin prospects in San Diego County, California as follows:

"The prospects shown on figure 1 in Amador, Humboldt, Inyo, Orange, Plumas, San Diego, Siskiyou, and Trinity Counties are described in California State Division of Mines quarterly of October 1941. Of the occurrences mentioned, only five were verified, and none of these was found to be important."

The writer considers that a suitable exploration objective has not been presented by the applicant and that the applicant be denied for this reason.

/s/ Abbott Renick

Abbott Renick

c
o
p
y

COPY

Re: Docket
No. DMEA-2551
(Tin)

June 25 - 52
Campo, Calif.

Dear Mr. Ellis:

Your letter of June 4th received, in reply will say I am having assays and if I understand your letter, you want me to send you a sample of the ore assayed, which I will do as soon as I receive my assay.

The detailed cost of tunnel, not knowing formations is hard to estimate with any accuracy, also the timber that may be required to conform with the mining laws of theState.

As I estimated in my application $25.00 per ft. usually covers the cost.

Respectfully,

/s/ S. F. Edwards
Rt. 1, Box 148-A
Campo, Calif.

COPY

JUN 4 1952

Mr. [illegible]
Route 1, Box [illegible]
[illegible], California

Docket No. [illegible]-2-51 (Min)
[illegible]
[illegible] Long Beach, Calif [illegible]

Dear Mr. [illegible]:

Reference is made to the application [illegible] now being processed in this office. Whether or not to continue with the processing of this application will depend upon the following information as follows:

1. [illegible] of a [illegible] showing the location of the [illegible] and the approximate elevations [illegible], location, width, [illegible] and orient of the [illegible] in relation to the [illegible].

2. [illegible] in relation to the [illegible].

3. [illegible] showing the [illegible] of the progress of the [illegible] and power line, [illegible], engineering, [illegible] or supplied by the operator. [illegible] work is to be done by a contractor [illegible] contract price [illegible].

[illegible] receipt of the above information [illegible] to continue processing this application.

Sincerely yours,

-S-

[illegible], Chief
[illegible] Div. Field Division

Knouse/jm
6/3/52
cc to: Adm. Reading File
Docket
Messrs. A.Henick-3061
[illegible]-4204
[illegible] Knouse
Field Team, Region III (2)

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 10-3-52

REFERRED TO:

1. Code 700 - Room 4640
2.
3.
4.

FOR:

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

REMARKS:

2nd copy H Report

Check (X) before the items needing attention.

Adams (AD)
Initials of sender.

GPO 16—63815-1

Office of
Executive Officer
DMEA Field Team
Region III

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

September 23, 1952

Memorandum

To: G. C. Selfridge, Acting Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2551 (Tin), S. F. Edwards, Andes Mine, San Diego County, California

Reference is made to your subject letter to me, dated July 18, 1952.

The subject property has been examined by one of my mining engineers and four copies of a report - DMEA-2551 (Tin), Andes Claims, S. F. Edwards property, San Diego County, California by Benjamin H. Sheahan, Mining Engineer, U. S. Bureau of Mines, dated September 15, 1952, are attached.

According to the examining engineer, no tin mineralization was observed at the Andes property. Samples were taken by the examining engineer at places where the applicant claimed to have received tin assays. The analysis of these samples by the Hydrometallurgical and Ore Dressing Branch indicated that the material does not contain any tin of appreciable quantity.

The examining engineer has concluded that the property does not warrant Government assistance in exploring the property.

The subject docket is being returned herewith.

H. C. MILLER

HCMiller:hdj
Files
Chron

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

Attachments

Copy to E. H. Bailey, USGS (with copy of report)

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

DOMESTIC MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-2551 (tin), Andes Claims
S. F. Edwards property

San Diego County, Calif.

Benjamin H. Sheahan, Mining Engineer
U. S. Bureau of Mines

September 15, 1952

Reviewed by
DMEA OPERATING COMMITTEE
10/1/52
(date)

Docket No. DMEA-2551 (tin), ANDES MINE, San Diego County, Calif.

Name and address of applicant: Mr. S. F. Edwards
Route 1, Box 148-A,
Campo, California

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

No tin mineralization was observed at the Andes property. The property consists of 13 unpatented mining claims 5.8 miles by road southeast of Campo, San Diego County, Calif. The owner of the claims, Mr. S. F. Edwards, has applied for Government aid to explore a barren granodiorite section of the mountain range.

Conclusions are that no further work is justified at the property. An exploration loan is not recommended.

The property was examined on August 18, 1952 between the hours of 2:00 P.M. and 7:00 P.M. The engineer was accompanied on the examination by the applicant S. F. Edwards and his partner, J. Slagill, Jr. of 3707 Harris Street, Lemon Grove, Calif.

NAME AND LOCATION OF PROPERTY

The property was named the Andes and is located in sec. 19, T. 18 S., R. 6 E., S.B.B.&M., at an altitude of 2,800 feet in the Laguna Mountains, San Diego County, Calif.

The nearest town from the claims where Mr. S. F. Edwards has made his home is Campo, Calif., on State Highway 94. The distance is 5.8 miles (see fig. 1A).

CONDITION AND SEASONAL ACCESSIBILITY OF ROAD TO PROPERTY

State Highway 94 is an all weather paved two lane road. The 1.9 mile stretch of road from the highway to the property follows along the

bottom of Smith Canyon and during the rainy season this one lane dirt road would not be passable with a standard model automobile.

COMPETENCY OF APPLICANT AND OPERATING PERSONNEL

The applicant has done 150 feet of exploration work at a few locations shown on figure 1B, and has constructed a cabin. A devining rod was used by the applicant to select the position of the exploration work. The applicant is incompetent to conduct the exploration project which he has requested.

APPLICANTS PROPERTY RIGHTS

The applicant holds 13 unpatented mining claims which he located in 1947 and recorded at San Diego, California in Book 4141, page 194. Claim corners and location discovery workings are missing on most of the claims. Mr. Edwards showed the examining engineer receipts for taxes which he had paid on this unpatented property.

Mr. J. Slagill, Jr., a construction workman, is Mr. Edward's son-in-law and partner.

DESCRIPTION OF THE PROPERTY

Surface facilities consist of a five-room cabin, a few hundred feet of used 3/4-inch pipe, and an assortment of hand tools.

Workings on the property consist of several open cuts, two short adits and a 30 feet shaft. Total footage of these workings amounts to about 150 feet (see fig. 1B).

Samples were taken by the engineer at the places where the applicant claimed to have received tin assays included with the dossier. Figure 1B, a sketch map shows the location of samples taken by the

engineer and analysed by U. S. Bureau of Mines, Hydrometallurgical and Ore Dressing Branch, Reno, Nevada:

Sample No.	Width/ft.	%,Sn
S-1	5	*0.03
S-2	5	*0.03

*Less than.

GEOLOGY AND ORE RESERVES

No tin mineralization was observed. The workings have all been excavated in partly decomposed granediorite.

There are no ore reserves and there has never been any production.

AVAILABILITY OF MANPOWER, MATERIALS, WATER

Supplies are usually obtained at San Diego, Calif., 52.8 miles west of the property.

A spring near the cabin supplies about 10 gallons of water per minute.

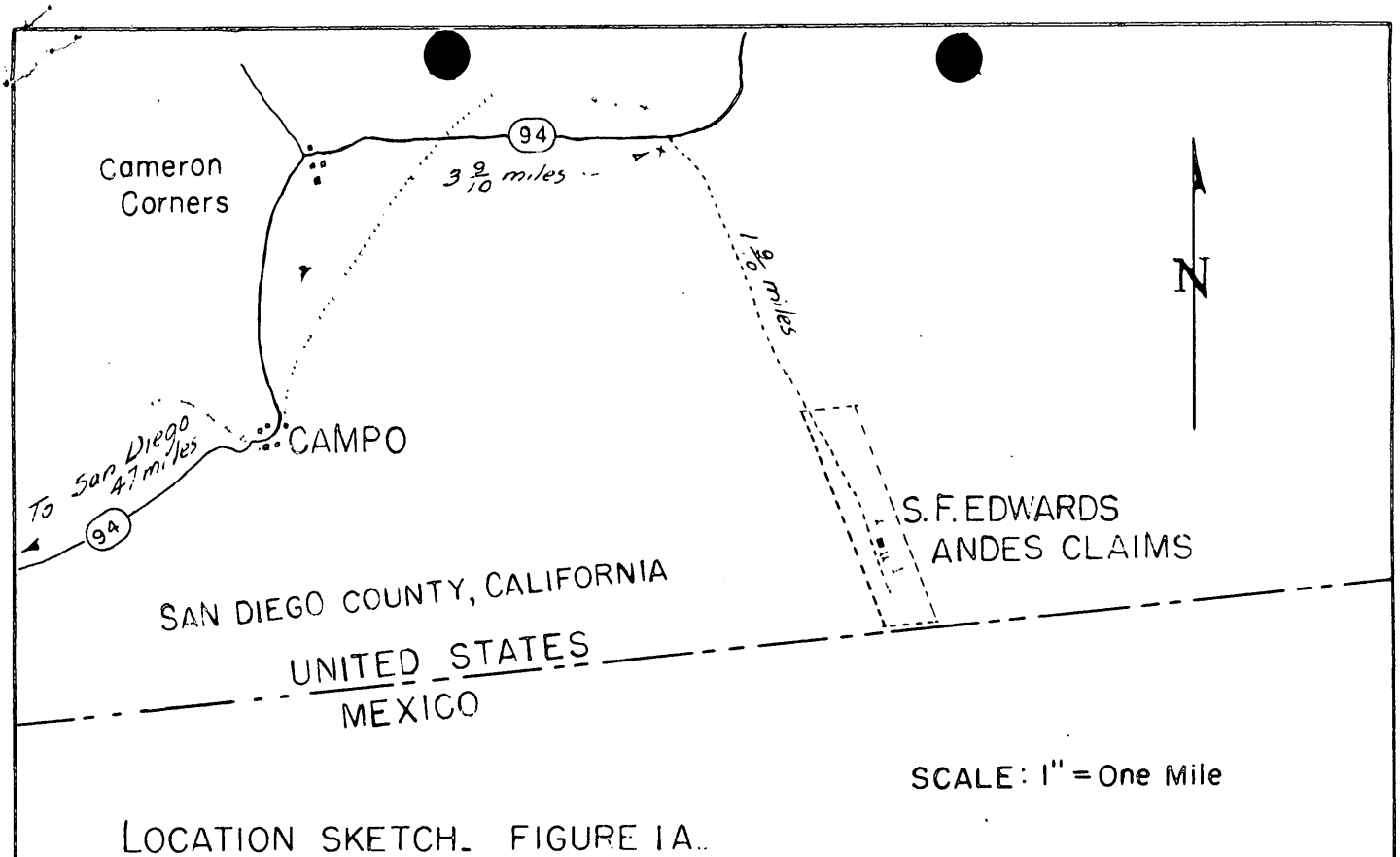
The current wage scale for miners is $16.00 per day, according to Mr. J. Slagill, Jr.

The applicant has no definite exploration program. He desires to drive adits into the mountain side at locations which he has selected by use of his divining rod.

The applicant and his partner were informed that they had no definite exploration program. The engineer asked the applicant to show him all workings and the occurrence of any tin mineralization that he had ever found on the claims.

The applicants divining rod consisted of a 1/2-inch diameter, willow branch about 2 feet in length with a weight attached to one end.

Two samples taken by the applicant and mailed to the U. S. Bureau of Mines were analyzed and contained less than 0.03%, Sn.



LOCATION SKETCH. FIGURE 1A.

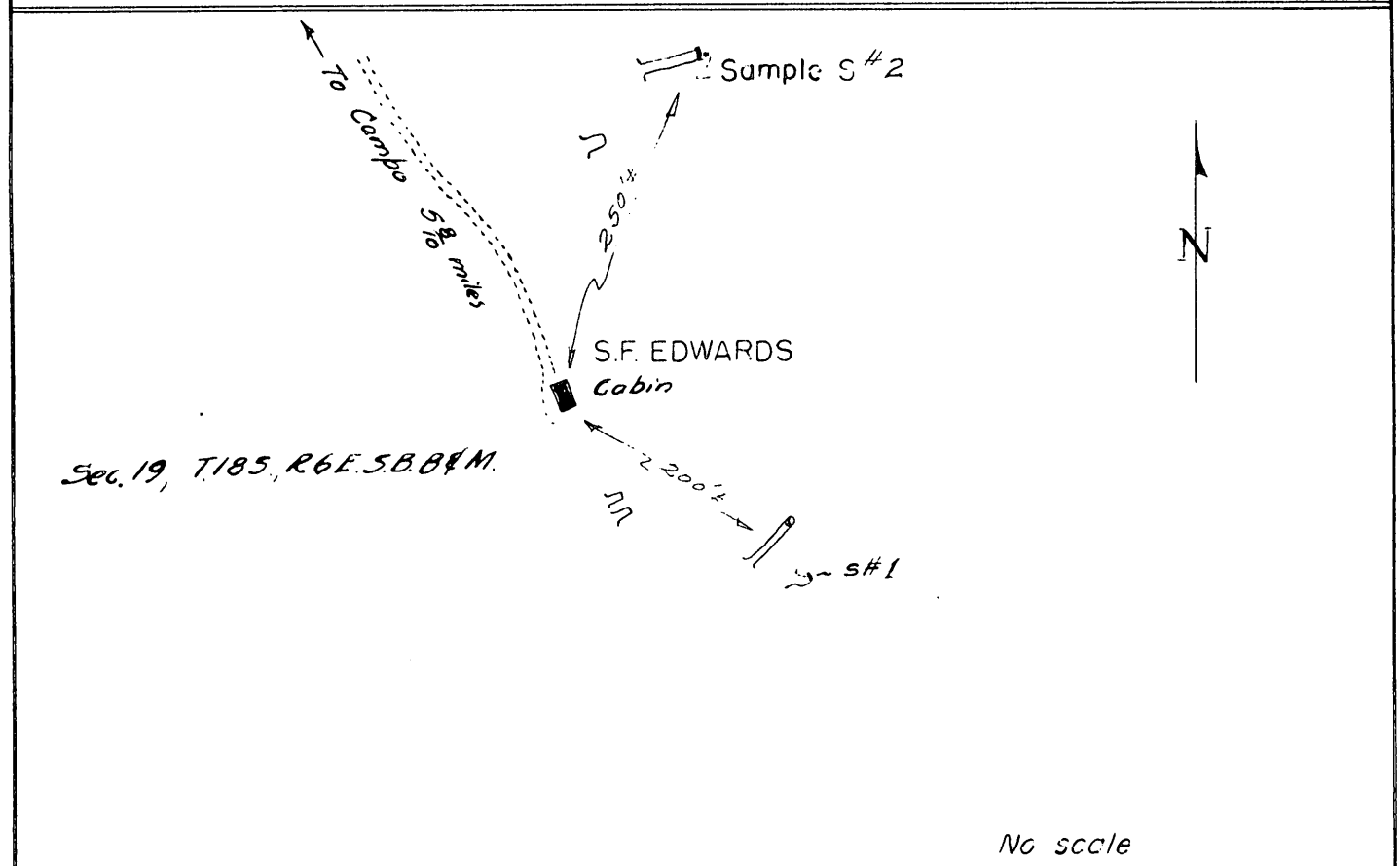


FIGURE 1B SKETCH MAP - SAMPLE LOCATIONS

ANDES PROPERTY, DMEA 2551 (Tim) SAN DIEGO COUNTY, CALIFORNIA

700
FILE COPY
SURNAME:

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

JUL 18 1952

Mr. S. E. Edwards
Route 1, Box 1[illegible]-A
Campo, California

Re: Docket No. DMEA-2591 (Sin
Andes Mine,
San Diego County, California

Dear Mr. Edwards:

The application for assistance in exploring your property in San Diego County, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. Your application has been referred for a field office recommendation to the Executive Officer of Region III at the following address:

Mr. [illegible] Miller
Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

The Regional Office will contact you if they require additional information on your application.

Sincerely yours,

(signed) FRANK E. JOHNSON

Acting Administrator

FLKnouse/[illegible]la 7-15-52
7-15-52
cc to: Adm. Reading File
Docket
Messrs. A. [illegible]enick, Rm. 3061
E. T. McKnight, Rm. 4204 GSA
Ellis
Knouse
DMEA Field Team, Region III (2)

700
FILE COPY
SURNAME:

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

F L Knouse
Ellis
Meinzer
Selfridge
E H Jackson

Mr. [illegible] C. Miller
Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

JUL 18 1952

Re: Docket No. DMEA-2551 (Cin)
S. F. Edwards
Andes Mine
San Diego County, California

Dear Mr. Miller:

The captioned application is referred to your office for either a field examination when the Field Team has other work in this area or appraisal and recommendation based on information available to your office.

You are referred to the following enclosed data when making your recommendations:

1. Memorandum from Mr. Edwin J. Lyons, dated June [illegible], 1952.

2. Memorandum from Mr. Abbott Renick, dated May 28, 1952.

3. Letter from Mr. S. F. Edwards (applicant) dated June 25, 1952.

4. Letter of Mr. Ernest [illegible] Ellis to Mr. S. F. Edwards, dated June [illegible], 1952 (copy sent to your office).

Sincerely yours,

7/18

George C. Selfridge

ACTING Chairman, Operating Committee

APPROVED:

E. H. Hedges

Member, Bureau of Mines

T. P. Thayer

Member, Geological Survey

FLKnouse/gla 7-15-52
cc to: Adm. Reading File
Operating Committee
Docket
Messrs. A. Renick, Rm. 3061
E. T. McKnight, Rm. 4204 GSA
Ellis
Knouse

FILE COPY
SURNAME:

FLKnouse
Ellis
Matt

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

JUN 4 1952

Mr. [illegible] Edwards
Route 1, Box 11, -
Lemoc, California

Re: Docket No. [illegible]-2-51 (Min)
[illegible]
San Diego County, California

Dear Mr. Edwards:

Reference is made to the [illegible] application [illegible] being processed in this office. In order for us to continue [illegible] the processing of the [illegible] we will require some additional information as follows:

1. [illegible] of [illegible] or [illegible], [illegible] scale, [illegible] approximate elevations [illegible], location, [illegible] amount of [illegible] in relation to the [illegible].

2. [illegible] of the proposed [illegible] in relation to [illegible] roads and [illegible].

3. [illegible] of the [illegible] of the proposed [illegible] i.e., roads, [illegible], [illegible], tunnels and power line, [illegible] or supplier, [illegible], engineering, [illegible] or supplies by the operator. If any part of this work is to be done by a contractor the unit cost of this work is to be indicated.

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

Sincerely yours,

Signed S.H. 6-4-52

Ernest Wm. Hill, Chief
Mare and Inc. Estate Division

FLKnouse/jcm
6/3/52
cc to: Adm. Reading File
Docket
Messrs. A.henick-3061
E.T.McKnight-4204
Ellis Knouse
Field Team, Region III (2)

Re: Docket
No. DMEA-2551
(Lin)

June 25-52
Campbell
Calif.

Dear Mr. Ellis

Your letter of June 4th received, in reply I will say I was having a very and if I understand your letter, you want me to send you a sample of the ore assayed which I will do as soon as I receive my assay.

The detailed cost of travel, not knowing for how long is hard to estimate with any accuracy, also the

Trusting that you will respond
to my proposition with the warm
heart of friendship.

As I estimated in my
bill it is $25.00 per ft.
accurately measure this is the
of

Respectfully,
S. F. Cornwell
Pit Barrel
Campo
Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 1 - 1952

6/2/52 [illegible]

IN REPLY REFER TO:

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

June 2, 1952

Re: Docket DMEA-2551
S. F. Edwards, Campo, Calif.
Exploration loan, $30,000
Tin

Memorandum

To: Mr. E. Wm. Ellis, DMEA

From: Erwin J. Lyons, USGS

Subject: Docket DMEA-2551, S. F. Edwards, Campo, California

The applicant has requested an exploration grant to explore his property in San Diego County, California. Total estimated cost is $30,000. The project will consist of 400 feet of tunneling. Road repairs, building construction, power line construction, and purchase of equipment are included.

The applicant has furnished no information by which the project can be evaluated. Assays submitted do not give the type, location, or any other data concerning the samples assayed. The map accompanying the application is a sketch map which shows little more than the location of the property and the strike of the vein. It is therefore suggested that the application be referred to the field for review and appraisal.

Erwin J. Lyons

Erwin J. Lyons
Geologist

5/29/52 gla

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

May 28, 1952

DMEA-2551-Tin
Exploration Loan
S. F. Edwards
Route 1, Box 148-A
Campo, California

Memorandum

To: E. William Ellis 4246

From: Abbott Renick, Base Metals Branch

Subject: Application for DMEA assistance submitted by S. F. Edwards, Campo, California

Applicant submits a request for a $30,000 tin exploration loan to consist of the following:

Adit work about 400 feet, road repairs (bulldozer work), equipment, revamping living quarters and a power line stated to be two miles.

Applicant reports four years prospecting on his property and submits results of tin assays on four samples:

June 6, 1947	Sample 1	1.13% Tin
June 6, 1947	Sample 2	1.53% Tin
June 2, 1949	Sample B-1524	0.39% Tin
June 2, 1949	Sample B-1525	0.76% Tin

Information regarding these four samples is lacking. The applicant does not furnish any factual information regarding these four samples, namely the width sampled. Likewise the width of the reported mineralized zone is not stated.

Report of Investigations 3776, April 1946, Survey of Tin in California, page 14, refers to tin prospects in San Diego County, California as follows:

"The prospects shown on figure 1 in Amador, Humboldt, Inyo, Orange, Plumas, San Diego, Siskiyou, and Trinity Counties are described in California State Division of Mines quarterly of October 1941. Of the occurrences mentioned, only five were verified, and none of these was found to be important."

The writer considers that a suitable exploration objective has not been presented by the applicant and that the applicant be denied for this reason.

Abbott Renick

Abbott Renick

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-2551

Date received 5-26-52

S. F. EDWARDS
Route 1, Box 148-A
Campo, California

Name and address of applicant

Date May 13, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

#1. (a) Cassiterite
(b) Possible wolframite tungsten and platinum

#2. Andes Mines
(a) 36 feet in shafts
(b) None
(c) 106 feet of tunnels, 32 feet of adits, two tunnels, 16 feet at foot of canyon
(d) In different locations there are four adits, ten feet long. No water troubles.

#3. (a) Five miles
(b) Campo
(c) Township 18, Section 19, Range 6
(d) County of San Diego, California

#4. (a) Yes, prospecting
(b) Owner

#5. Estimate production will start within 30 days of loan approval.

#6. Experience of operators
(a) Worked in mines for ten years in B.C. and Montana, owner and operator of Seeley Water Works. Sold out in 1948 to prospect these claims.
(b) Jesse Slagill, General Contractor, License No. 80838, Mining and prospecting for ten years.

#7. History
(a) Property was explored by licensed engineer and was found highly mineralized.
(b) None
(c) David Fitch of LaJolla, California, Consulting Engineer, reported highly mineralized.

#8. Not incorporated
(a) Partners - S. F. Edwards, Box 148-A, Campo, California
J. Slagill, Jr., 3707 Harris Street, Lemon Grove, California
(b) None
(c) None
(d) None
(f) None
(g) None
(h) None

#9. Capital stocks, issues - None

#10. Production - None

#11. Not in productive operation yet.

#12. Ore or mineral reserves
(a) 6,000 feet long, width unexplored as yet
(b) If deposit is other than placer
1. Tunnels at bottom of canyon. Sample No. 1 .39 tin adite 600 feet above lower tunnels. Assay No. 2 .76 tin, government smelter reports. Assayer reports are No. 1 - 1.13% tin
Grouch Engineering Co. Sample No. 2 ½ 1.53%tin

2. Cannot be answered without further exploration.
(c) None

#13. Access Roads
Five miles to shipping point. Roads good.

#14. Plenty of water available for year round. Good springs.

#15. Power is available two miles.

#16. Labor
None employed but are available.

#17. Five room cabin in fair condition
Equipment - All hand tools

#18. Lacking power tools, track and cars and air conditioning.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By ---
(Signature of authorized official)

(Date)

(Title)

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

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

TIN PROCESSING CORPORATION - LONGHORN SMELTER

CERTIFICATE OF ANALYSIS

Description MISC. GRAB SAMPLES Date June 2, 1949 19__

Mrs. S. F. Edwards

781 Holt Ave., El Centro, California

Herbert H. White
Chief Chemist

	SN
B-1524 Sample #1	.39
B-1525 Sample #2	.76

This is an exact copy of the original, which was sent to the Honorable J. Hardin Peterson, at the time bill was being enacted.

METALLURGISTS
ORE TESTING
MILL BUILDING
GROCH CYANIDE EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

SUBMITTED BY Mr.S.F.Edwards
ADDRESS 781 Holt Ave.
El Centro,Cal.
DATE RECEIVED

GOLD $ Per Ounce
SILVER $ Per Ounce

Assay Number	Owner's Mark of Description	Gold per Ton		Silver per Ton		Total Gold and Silver	OTHER MATERIALS		Total Value
		Oz. Troy	Value	Oz. Troy	Value		%	Value	
	Sample No.1						1.13% Tin		
	Sample No.2						1.53% Tin		

CHARGES $ 8.00
for
Sol

ASSAYER Frank Groch
DATE June 6,1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

Phone MUtual 0836

ASSAY CERTIFICATE

GROCH ENGINEERING COMPANY

MINING • ELECTRIC ENGINEERING • ASSAY LABORATORY
ORE TESTING • MILL DESIGN
624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA

OWNERS
GROCH BOMBARDING FLOTATION
MACHINE PATENTS
10 FOOT DIAMETER
20 FOOT DIAMETER
30 FOOT DIAMETER
GROCH CYANIDE AGITATOR

SUBMITTED BY Harryman & Edwards
ADDRESS 781 Holt Ave. El Centro, California
DATE RECEIVED

GOLD $ Per Ounce
SILVER $ Per Ounce

Assay Number	Owner's Mark of Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
	We tabled 340 pounds of your product-60# Mine ore reground to pass 15 mesh (140# Gravel Minus ½" plus 15 mesh (140# Gravel minus 15 mesh This ore was tabled over a Dunham table, first passing thru a 30 mesh trommel, letting the Minus 30 mesh go over the table first, then we passed the minus 15 mesh plus 30 mesh product over the table. We recovered from the gold or high riffle a product, which carried Rhodium and Platinum and it assayed $141.80 per ton, including a little gold, all of which was amalhamated. We made a first concentrate from the lower riffles, which we dried and put over the Amen magnetic separator. These products we are holding.								

Part of the Rhodium-Platinum Recov.

CHARGES $

ASSAYERS Frank Groch

DATE December 8, 1949

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF,
PHONE 533

MILL ASSAYS
ORE TESTING
MILL BUILDING
GROCH CONCENTRATING EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

TUNGSTEN OXIDE
WO_3-$20.00 per Unit.

GOLD $ 35.00 Per Ounce

SILVER $ 91¢ Per Ounce

SUBMITTED BY Mr. C. F. Edwards
ADDRESS 701 Holt Ave.
DATE RECEIVED El Centro, California

Assay No.	Owner's Mark or Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
	Sample Altered Granite Andes Mine	0.04	$1.40	0.56	52¢	$1.92	0.68% WO_3	-$13.60	

ASSAYER [signature]

CHARGES $ 5.50 Paid

DATE March 22, 1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

EXPLORATION

Subject: DMEA-2551
Re: Exploration Loan
Andes Mine
May 26, 1952

Mr. S. F. Edwards
Route 1, Box 148-A
Campo, California

My dear Mr. Edwards:

This will acknowledge receipt of your application dated May 13, 1952 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2551 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2551 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Administrative Officer

7862

DMEA-2551

OFFICE OF THE ADMINISTRATOR

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

Office of
Executive Officer
DMEA Field Team
Region III

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

May 21, 1952

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for an Exploration Loan (Tin), San Diego County, California. Applicant: S. F. Edwards, Route 1, Box 148-A, Campo, California

Attached are three of the four sets of MF-103 and MF-100 forms, dated May 13, 1952, received in this office from subject applicant.

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

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

Attachment

Copy to: E. H. Bailey, USGS

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

MF-103
(Rev. 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-2551
Metal or Mineral
Date Received 5-26-52
Amount $
Participation (Government %)

Name and address of applicant

S. F. EDWARDS
Route 1, Box 148-A
Campo, California

Date May 13, 1952

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

---------- By ----------
(Name of company) (Signature of authorized official)

---------- ----------
(Date) (Title)

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

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

#1. (a) Northwest 1/4 of the Northwest 1/4 of Section 19, Range 6 east, township 18
Northeast 1/4 of the Northeast 1/4 of Section 24, Range 5 east, township 18
(b) I am the owner.
(c) Note 1, both areas are the same.

#2. (a) Tin with by products wolframite tungsten, platinum.
(b) Distinctive ore vein on top of the mountain, running northwest and southeast. Decomposed granite, consisting of quartz, tourmaline, gneiss, etc.
I have no engineering report in writing, but about a year ago, David Fitch, Consulting Engineer of LaJolla, California, gave the report to an adjoining property owner, that this was a very highly mineralized mountain. Both tin, tungsten and platinum assays, which I have taken from these claims, I am submitting with the application. If my application is approved the assay sheets need not be returned.

#3. (a) The proposed work will consist of tunneling 400 feet, repairing road, timbering tunnel, buying equipment, enlarging living quarters, electric line - $30,000.
(b) 30 days from time loan is granted, work will be well under way, and completed within 12 months.

#4. Map submitted with application.

#5. At present time, facilities, 5 room cabin, hand drills, and wheelbarrow.

#6. Additional facilities, dining room - $2,000, sleeping quarters - $2,000., bathroom and water heater for bathroom - $1,000.

#7. (a) Rented bulldozer - $50.00 per day, air compressor and air hammer - $25.00 per day, including operator.
(b) To be purchased if necessary, portable air compressor and air hammer, ore truck and track.
(c) Furnished by me - None

#8. Two miners, union scale per hour; one mucker, union scale per hour; one supervisor, $400.00 per month.

#9. Cannot answer with any accuracy.

#10. (a) What the government requires either in work or cash.
(b) I believe it is.

#11. I see no other condition or circumstances to be brought out.

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-2551

Date received 5-26-52

S. F. EDWARDS
Route 1, Box 148-A
Campo, California

Name and address of applicant

Date May 13, 1952

INSTRUCTIONS

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

GENERAL TECHNICAL DATA

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

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

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

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 26 1952

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

(a) Describe the ore or mine[illegible]deposit briefly. Accompany the application b[illegible]y available report on the geology and ore reserves.

#1. (a) Cassiterite
(b) Possible wolframite tungsten and platinum

#2. Andes Mines
(a) 36 feet in shafts
(b) None
(c) 106 feet of tunnels, 32 feet of adits, two tunnels, 16 feet at foot of canyon
(d) In different locations there are four adits, ten feet long. No water troubles.

#3. (a) Five miles
(b) Campo
(c) Township 18, Section 19, Range 6
(d) County of San Diego, California

#4. (a) Yes, prospecting
(b) Owner

#5. Estimate production will start within 30 days of loan approval.

#6. Experience of operators
(a) Worked in mines for ten years in B.C. and Montana, owner and operator of Seeley Water Works, Sold out in 1948 to prospect these claims.
(b) Jesse Slagill, General Contractor, License No. 80838, Mining and prospecting for ten years.

#7. History
(a) Property was explored by licensed engineer and was found highly mineralized.
(b) None
(c) David Fitch of LaJolla, California, Consulting Engineer, reported highly mineralized.

#8. Not incorporated
(a) Partners - S. F. Edwards, Box 148-A, Campo, California
J. Slagill, Jr., 3707 Harris Street, Lemon Grove, California
(b) None
(c) None
(d) None
(e) None
(f) None
(g) None
(h) None

#9. Capital stocks, Issues - None

#10. Production - None

#11. Not in productive operation yet.

#12. Ore or mineral reserves
(a) 6,000 feet long, width unexplored as yet
(b) If deposit is other than placer
1. Tunnels at bottom of canyon. Sample No. 1 .39 tin adite 600 feet above lower tunnels. Assay No. 2 .76 tin, government smelter reports.
Assayer reports are No. 1 - 1.13% tin
Grouch Engineering Co. Sample No. 2 - 1.53% tin
2. Cannot be answered without further exploration
(c) None

#13. Access Roads
Five miles to shipping point. Roads good.

#14. Plenty of water available for year round. Good springs.

#15. Power is available two miles.

#16. Labor
None employed but are available.

#17. Five room cabin in fair condition
Equipment - All hand tools

#18. Lacking power tools, track and cars, and air conditioning.

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

_____
(Name of company)

By _____
(Signature of authorized official)

_____
(Date)

_____
(Title)

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

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

870 Market Street
San Francisco 2, California
OFFICIAL BUSINESS

SAN FRANCISCO
MAY
2
4:30
19
CA

DEFENSE MINERALS EXPLORATION ADMINISTRATION
INTERIOR BUILDING
WASHINGTON 25, D. C.

METALLURGISTS
ORE TESTING
MILL BUILDING
GROCH CYANIDE EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

SUBMITTED BY Mr.S.F.Edwards
ADDRESS 781 Holt Ave.
DATE RECEIVED El Centro,California

TUNGSTEN OXIDE
WO3-$20.00 per Unit.
GOLD $ 35.00 Per Ounce
SILVER $ 91¢ Per Ounce

Assay Number	Owner's Mark of Description	Gold per Ton		Silver per Ton		Total Gold and Silver	OTHER MATERIALS		Total Value
		Oz. Troy	Value	Oz. Troy	Value		%	Value	
0	Sample Altered Granite Andes Mine	0.04	$1.40	0.56	52¢	$1.92	0.68% WO_3	-$13.60	

CHARGES $ 5.50 Paid

ASSAYER Frank Groch

DATE March 22,1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 555

Phone MUtual 0836

ASSAY CERTIFICATE

GROCH ENGINEERING COMPANY

MINING • ELECTRIC ENGINEERING • ASSAY LABORATORY
ORE TESTING • MILL DESIGN
624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA

OWNERS
GROCH BOMBARDING FLOTATION
MACHINE PATENTS
10 FOOT DIAMETER
20 FOOT DIAMETER
30 FOOT DIAMETER
GROCH CYANIDE AGITATOR

SUBMITTED BY Harryman & Edwards
ADDRESS 781 Holt Ave. El Centro, California
DATE RECEIVED

GOLD $ Per Ounce
SILVER $ Per Ounce

Assay Number	Owner's Mark of Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
	We tabled 340 pounds of your product-60# Mine ore reground to pass 15 mesh (140# Gravel Minus ¼" plus 15 mesh (140# Gravel minus 15 mesh This ore was tabled over a Dunham table, first passing thru a 30 mesh trommel, letting the Minus 30 mesh go over the table first, then we passed the minus 15 mesh plus 30 mesh product over the table. We recovered from the gold or high riffle a product, which carried Rhodium and Platinum and it assayed $141.80 per ton, including a little gold, all of which was amalhamated. We made a first concentrate from the lower riffles, which we dried and put over the Amen magnetic separator. These products we are holding.								

Part of the Rhodium-Platinum Recov.

CHARGES $

ASSAYERS Frank Groch

DATE December 8, 1949

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF.
PHONE 533

METALLURGISTS
ORE TESTING
MILL BUILDING
GROCH CYANIDE EQUIPMENT

TEN-TWENTY-THIRTY FOOT BOMBARDERS

ASSAY CERTIFICATE

GROCH ENGINEERING CO.

624 WEST NINTH STREET
LOS ANGELES 15, CALIFORNIA
MUtual 0836

GROCH BOMBARDING FLOTATION MACHINES
STOP MINERAL BEARING FROTH LOSS

SUBMITTED BY Mr.S.F.Edwards
ADDRESS 781 Holt Ave.
El Centro,Cal.
DATE RECEIVED

GOLD $ Per Ounce
SILVER $ Per Ounce

Assay Number	Owner's Mark of Description	Gold per Ton Oz. Troy	Gold per Ton Value	Silver per Ton Oz. Troy	Silver per Ton Value	Total Gold and Silver	OTHER MATERIALS %	OTHER MATERIALS Value	Total Value
	Sample No.1						1.13% Tin		
	Sample No.2						1.53% Tin		

CHARGES $ 8.00
Pd
Bal

ASSAYER Frank Groch
DATE June 6,1947

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF,
PHONE 588

TIN PROCESSING CORPORATION - LONGHORN SMELTER

CERTIFICATE OF ANALYSIS

Description MISC. GRAB SAMPLES

Date June 2, 1949 19__

Mrs. S. F. Edwards

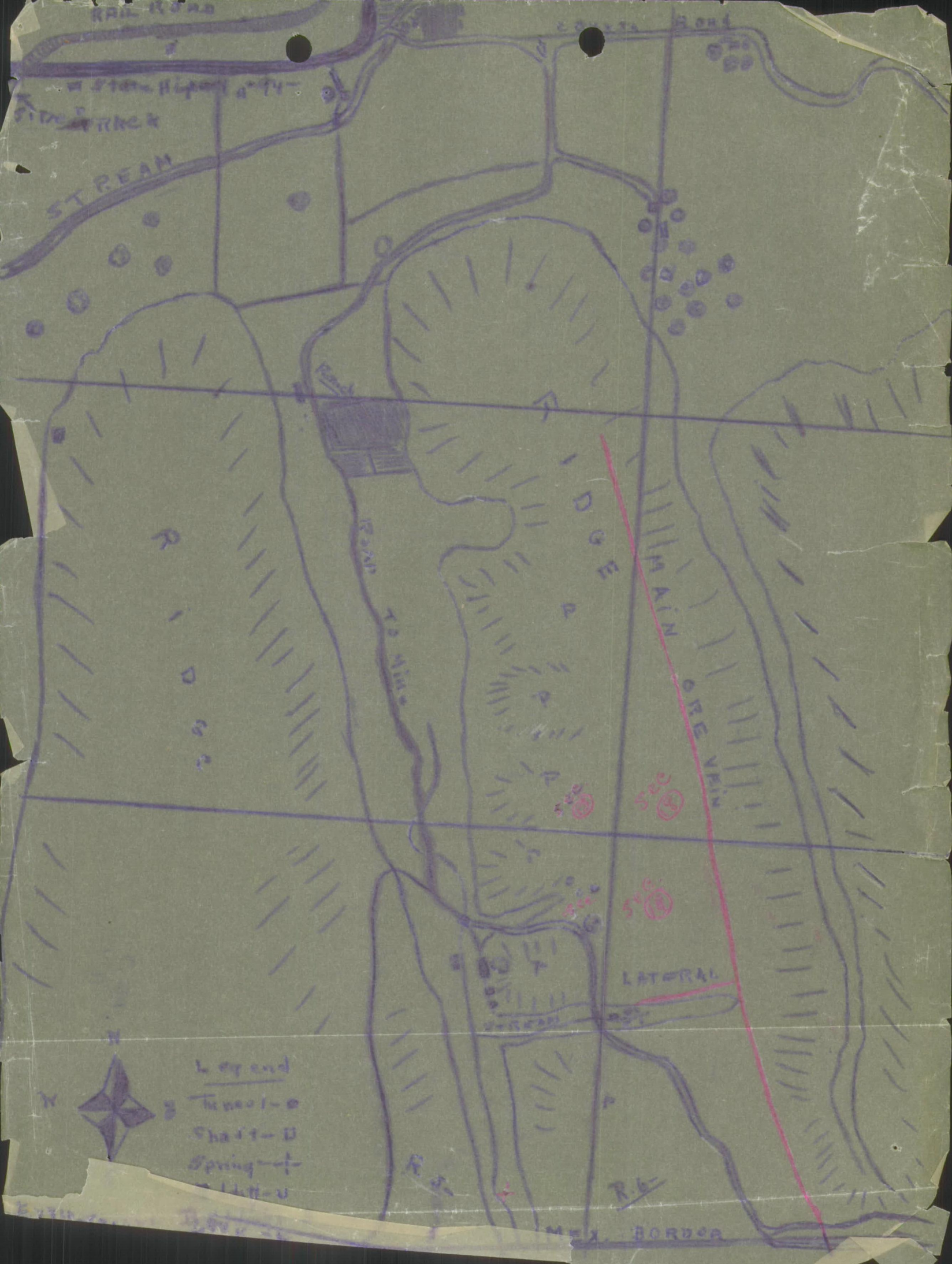
781 Holt Ave., El Centro, California

Herbert H. White
Chief Chemist

	SN
B-1524 Sample #1	.39
B-1525 Sample #2	.76

This is an exact copy of the original, which was sent to the Honorable J. Hardin Peterson, at the time bill was being enacted.

COUNTS STUDIO
118 W. MAIN St
IMPERIAL CALIF,
PHONE 533


RAIL ROAD
STREAM
Road To Mine
MAIN ORE VEIN
LATERAL
Legend
Tunnel
Shaft
Spring
MEX. BORDER

Rail Road
County Road
State Highway -94-
Side Track
Stream
Ranch
Ridge
Road to Mine
Main Ore Vein
P-Sec. 13
Sec 18
P Sec 24
Sec 19
Lateral
Stream
Trail
Stream
Trail
Mex. Border
Legend
Tunnel-
Shaft-
Spring-
Adit-
Buildings-
Peak-P
N
W
E
S

Turner

Rail Road
County Road
State Highway -84-
Side Track
Road to Mine
Main Vein
Sec 18
Sec 13
Sec 14
Lateral
Stream
Trail
Trail
Trail
Trail
Legend
Tunnel - a
Shaft - a
Spring - ⊥
Adit - u
Buildings - a
Pond - p
Trees

Rail Road
County Road
State Highway -94-
Side Track
Stream bed
Ranch
Road to Mine
Ridge
Main Ore Vein
P.
sec. 13
sec. 18
sec. 24
sec. 19
Lateral
Stream
Trail
Ridge
R. 5
R. 6
Mex. Border
N.
W.
E.
S.
Legend
Tunnel -
Shaft -
Spring -
Addit -
Buildings -
Peak - P
Sketched by
Turner

Rail Road
County Road
State Highway 49
Side Track
Road to mine
Main Ore Vein
Lateral
Stream
Legend
Tunnel
Shaft
Spring
Adit
Building
Peak
Elevated by
Eddie Turner

Rail Road
County Road
State-Highway-94-
Side track
stream bed
Ranch
Ridge
Ridge
Road To mine
Main Ore Vein
Sec. 13
Sec 18
Sec 24
Sec 19
Lateral
Stream
Trail
Trail
Stream
R. 5
Mex. Boader
Legend
Tunnel -
Shaft -
Spring -
Addit -
Buildings -
Sketched by
Eddie Turner

Rail Road
County Road
State-Highway-94-
Side track
Stream bed
Road
Road To Mine
Main
Gate
Trail
Trail
Trail
Stream
Stream
Lateral
Mex. Border
Legend
Tunnel - ■
Shaft - □
Spring - ⊥
Addit - ◇
Building - ■
Peak - P
Sec. 18
Sec. 19
Sec. 13
Sec. 24
Sec. 30
N
W
E
S