600

SEP 11 1953

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3090 - Beryllium
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

Reference is made to your letter of September 2, 1953, withdrawing your application for exploration assistance on the Emerald Mine, Docket No. DMEA-3090, in Fresno County, California.

A search of our records and a telephone call to the Bureau of Mines and the Defense Materials Procurement Agency fail to show any company by the name of The Trinity Trust of Mullan, Idaho, or the Four Square Gold Syndicate having made any application for Government assistance. The Regional Office of the Bureau of Mines located in Albany, Oregon, attention of Mr. Stephen M. Shelton, may have information on this particular area.

We appreciate your frankness in explaining the withdrawal of your application, and assure you that we do not consider you intentionally misrepresented the facts.

Sincerely yours,

E. O. Mittendorf

Administrator

LGHouk:gad 9/11/53
Copy to: Admr. R. File
Docket File
Field Team, Region III
Operating Committee
Mr. Larrabee, G-232 GSA Bldg.
Mr. Griffith, Room 3641A
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3090 - Beryllium
Emerald Mine
Fresno County, California

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Your interest in the Exploration Program of the Defense Minerals Exploration Administration and your willingness to participate therein are appreciated.

Sincerely yours,

Administrator

Last ¶ not particularly appropriate in this case —

Might say —

Appreciate your frankness in explaining the case & assure him that we do not consider that he [illegible]

DMEA-3090
✓ Beryllium
Region III

C. McGUIRE PIERCE, U. S. TUNGSTEN MINES, FRESNO, CALIFORNIA. 8-10-53
Emerald Mine, Fresno County, California. #253

Letter to the Field requesting Field examination and report and enclosing two copies each of memoranda by F. R. Griffith, Bureau of Mines, dated July 1 and 28, 1953, and two copies each of memoranda by D. M. Larrabee, dated July 30 and August 4, 1953. Field advised that special emphasis should be given to the mineralogy and that samples should be taken for spectrographic analyses. Letter to the Applicant.

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3090 - Beryllium
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

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Your interest in the Exploration Program of the Defense Minerals Exploration Administration and your willingness to participate therein are appreciated.

Sincerely yours,

Administrator

Emerald is name of mine operating. Trinity Trust he has more of a promoter

Albion Briggs (Survey) X-3735 he knows that country — just returned from there.

DEFENSE MINERALS ADMINISTRATION

97023

PRODUCTION EXPANSION DIVISION

PROCUREMENT APPLICATIONS

Name of Company and Address _____

Name of Mine and Location _____

Docket No. DMA - _____ Date received by P.E.D. _____

Metals or Minerals involved _____

Length of Contract (preproduction plus production) _____

Amount of Metals or Minerals in tons, units or pounds _____

Floor price or Guaranteed price and whether or not escalated _____

Maximum Government Commitment _____

Comments on Contract: _____

_____

_____

_____

_____

_____

Date sent to Legal Division _____

Date of Recommendation to D.P.A. for Certification _____

Date Certification sent to G.S.A. by D.P.A. _____

Date signed into Contract by G.S.A. _____

Additional Remarks: _____

_____

_____

_____

_____

NOTE: If application is denied, or if it is recommended for change into exploration, etc., please state under additional remarks.

Signed _____

Interior—Duplicating Section, Washington, D. C.

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

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

August 27, 1953

Mr. G. McGuire Pierce
U. S. Tungsten Mines
735 Van Ness Avenue
Fresno 1, California

Re: Docket [illegible]A-3090 (Beryllium)
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

You have received a letter from Mr. G. C. Dittendorf, dated August 11, 1953, informing you that your application, [illegible]A-3090 (Beryllium), has been referred to this office for a field examination.

Inasmuch as the samples you submitted to Washington run exceptionally low in Be and W, we are wondering if you still have enough interest in the property to warrant us making a field examination.

Probably the samples you sent to the Washington office were not representative of your ore, or possibly you have uncovered better mineralization than that which you sampled at that time. If so, kindly send us some samples so we can have them run in Reno. Then, if those samples indicate a more favorable beryllium content we will send our engineer and geologist to make a field examination.

Sincerely yours,

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

Copy to: DMEA, Washington, D. C.
E. H. Bailey, USGS
A. C. Johnson, Reno

AUG 1 1 1953

Mr. [illegible] McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. [illegible]-3090 (Beryllium)
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

Since reviewing your application for assistance in exploring the above-named property, the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration has received the spectrographic and mineralogic report on the sample, which you sent us under separate cover, as stated in your letter of July 13, 1953.

We regret to inform you that the sample assayed only 0.005 percent Be and 0.006 percent W. Only pyroxene, fluorite, garnet, and molybdenite were identified microscopically after crushing and separation by heavy liquids.

Under these circumstances, we can only refer the application to Mr. H. E. Miller, Executive Officer, Geol. Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination of the Emerald mine.

The regional office will contact you at an early date in regard to the examination of your property. Any assistance that you can give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

IOHouk/GWSelfridge/gad/bih
8/10/53

cc to: Docket
Admr. Reading File
Field Team, Region III
Operating Committee
Messrs. Larrabee (GA Bldg/, Op232
Griffith R-3641A
Houk
Selfridge

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. [illegible]-3690 - Beryllium
Emerald Lane
Fresno County, California

Dear Mr. Pierce:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination, should he deem it necessary.

The Regional Office will contact you at an early date, if an examination is to be made. Any assistance that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

Administrator

LGHouk:gad 8/5/53

Copy to: Admr. R. File
Docket File
Field Team, Region III
Mr. Larrabee, G-232 GSA Bldg.
Mr. Griffith, 3641A
Mr. Houk
Operating Committee

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

AUG 11 1953

Mr. F. C. Miller
Executive Officer
Field Team, Region III
1013 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. [illegible]-3090 (Beryllium)
U. S. Tungsten Mines
Emerald Mine
Fresno County, California

Dear Mr. Miller:

Please arrange for a field examination of the subject mine. Special emphasis should be given to the mineralogy, especially of the areas reported to consistently furnish high Be analyses. Sufficient samples should be taken for spectrographic analysis of one or more of these areas to conclusively prove the presence or absence of beryllium in interesting amounts. Alteration products should be included.

Early examination of the property will be appreciated.

Sincerely yours,

[illegible]

W. S. Martin
ACTING Chairman, Operating Committee

J. H. Hedges
Member, Bureau of Mines

A. R. Kinkel, Jr.
Member, Geological Survey

Enclosures (4)
LGHouk/GSSelfridge/gad/bih 8/10/53
cc to: Docket
Admr. Reading File
Operating Committee
Messrs. Larrabee GSA Bldg. G-232
Griffith R-3641A
Houk
Selfridge

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

Subject: Docket No. DMEA-3090 - Beryllium
U. S. Tungsten Mines
Emerald Mine
Fresno County, California

Dear Mr. Miller:

Please review the subject application and arrange for a field examination if you deem it advisable.

Copies of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your information.

Sincerely yours,

Chairman, Operating Committee

Approved:

PS: Sampling and geologic mapping may be necessary to evaluate this proposal.

Member, Bureau of Mines

Member, Geological Survey

Enclosures 4

LGHouk:gad 3/5/53
Copy to: Admr. R. File
Operating Committee
Docket File
Mr. Larrabee, G-232 GSA Bldg.
Mr. Griffith, 3641A
Mr. Houk

Hold for analysis

U. S. Tungsten Mines

Gentlemen:

Reference is made to your letter of July 13, 1953, and July 19 transmitting a sketch of the Emerald Beryllium Deposit together with five spectographic assay certificates, a requesting program change. Receipt is acknowledged of sample submitted for mineral identification.

~~The Defense Minerals Exploration Administration does not purchase diamond drill rigs for ~~between~~ three and four thousand feet of diamond drilling. Should you wish to purchase the used diamond drilling accessories and rent to the Government, this Administration will allow the regular use allowance of 1/60 of its present value per month as rental. You should, also, investigate the possibilities of rental of diamond drilling equipment.~~

Your application DMA-1559X for tungsten exploration on the Mudd No. 7 Lode mining claims in Fresno County, California, was executed ~~into~~ to Contract Idm-E68 on July 19, 1951

DMEA-4

Monthly Report of DMEA
Field Team

Region_____

Month_____

Exploration Applications

On hand first of month	_____
Received from applicants	_____
Received from Washington office	_____
Transmitted to Washington office	_____
On hand at end of month	_____

Exploration Contracts

		Total Amount	
	No.	Government	Private
In force first of month			
Projects inspected			
Signed during month			
Terminated			
In force at end of month			

Man Days

	Mines		Survey	
	Prof.	Nonprof.	Prof.	Nonprof.
Applications				
Administration of contracts				
Other				
Totals				

Total Professional _____

Total Nonprofessional _____

Attach list of cases on hand at end of month, indicating status of each. Any other remarks considered appropriate may be made on an attached sheet.

Submit four copies to the Operating Committee by the 5th of the month.

Interior—Duplicating Section, Washington, D. C.

10425

IN REPLY REFER TO:

G-MD-CNM

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

August 4, 1953

Memorandum

REVIEW OF APPLICATION DMEA-3090 (beryllium)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: G. McGuire Pierce, U. S. Tungsten Mines, 736 Van Ness Avenue, Fresno 1, California.
Name of property: Emerald mine.
Location of property: On Dinkey Mountain, near Dinkey Creek, Fresno County, California.
Summary of applicant's proposal: See our memorandum June 30, 1953.
Sources of information on applicant's property: None.
Comments:

1. See our memorandum June 30, 1953.
2. Analysis (by U.S.G.S.) of samples: % Be .005 equals .015 BeO equals 0.150 beryl.

This is extremely low grade, and beryllium-bearing mineral not determined. Since the samples submitted are commonly above average, this BeO content does not even approach the 10% figure mentioned by applicant, it is doubtful if average ore could be better.

3. New proposal by applicant requires "drifting in ore." If this grade of material could be classed as "ore" (which is impossible,) then the proposal is mining, which is not included in DMEA.

RECOMMENDATION: Denial.

(U.S.G.S. analysis is attached.)

D. M. Larrabee

Larrabee:jeh
8/4/53
cc: Director's reading 4212
Branch reading 4212
DMEA 3
Larrabee G-232 files

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

DMEA - 3090

Report No. IWS-423
Job-1219
(See IWM-508)

For: Donald H. Richter and Lawrence G. Houk, DMEA
Requested by: Letter of July 16, 1953

Date August 3, 1953

Lot No. _____

Quantitative spectrographic analysis for beryllium and tungsten in a sample of alleged beryllium ore from Emerald Mine, Fresno County, California.

Plate W-595(2)

Laboratory No.	Field No.	Description
53-1819 MS	DMEA-3090	Beryllium ore

Laboratory No.	% Be	% W
53-1819 MS	.005	.008

By /s/ Janet D. Fletcher
Janet D. Fletcher

s/ Michael Fleischer
Geochemistry and Petrology Branch

jmc

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

Report No. IWM-508
Job No. 1219

For: Lawrence G. Houk, DMEA
Requested by: Memo dated July 16, 1953

Date July 20, 1953

Lot No. _____

Mineralogical Analysis of a Sample of Beryllium Ore, Emerald Mine, Fresno Co., California.

The above sample of beryllium ore was submitted primarily to determine if the reported 10 to 15% BeO (DMEA Docket 3090) is present as phenakite, the beryllium silicate, as has been claimed, or some other beryllium mineral.

Megascopically the ore is essentially a medium to coarse-grained pyroxenite, with a limonitic-type surface alteration. Colorless and pink crystalline minerals are present in minor amounts.

A portion of the unaltered material was ground to -60, +80 mesh, and the constituent minerals separated by heavy liquids (bromaform and methylene iodide) and isodynamic separator.

The following 4 minerals, which constitute at least 99% of the rock or ore, were separated and identified:

	Approx. wt. %
Pyroxene	87.0
Fluorite	8.0
Garnet	4.5
Molybdenite	0.5

No beryllium mineral was found in the unaltered ore. It is possible, however, that the beryllium may occur as a secondary mineral in the highly altered areas of the ore.

By

/s/ Donald H. Richter
Donald H. Richter

s/ Michael Fleischer
Geochemistry and Petrology Branch

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

DMEA - 3090

Report No. IWS-423
Job-1219
(See IWM-508)

For: Donald H. Richter and
Lawrence G. Houk, DMEA
Requested by: Letter of July 16, 1953

Date August 3, 1953

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Plate W-595(2)

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53-1819 MS	DMEA-3090	Beryllium ore

Laboratory No.	% Be	% W
53-1819 MS	.005	.008

By /s/ Janet D. Fletcher
Janet D. Fletcher

s/ Michael Fleischer
Geochemistry and Petrology Branch

jmc

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

Report No. IWM-508 For: Lawrence G. Houk, DMEA Date July 20, 1953
Job No. 1219 Requested by: Memo dated July 16, 1953

Lot No. _____

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Megascopically the ore is essentially a medium to coarse-grained pyroxenite, with a limonitic-type surface alteration. Colorless and pink crystalline minerals are present in minor amounts.

A portion of the unaltered material was ground to -60, +80 mesh, and the constituent minerals separated by heavy liquids (bromaform and methylene iodide) and isodynamic separator.

The following 4 minerals, which constitute at least 99% of the rock or ore, were separated and identified:

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Molybdenite	0.5

No beryllium mineral was found in the unaltered ore. It is possible, however, that the beryllium may occur as a secondary mineral in the highly altered areas of the ore.

By

/s/ Donald H. Richter
Donald H. Richter

s/ Michael Fleischer
Geochemistry and Petrology Branch

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

DMEA - 3090

Report No. IWS-423
Job-1219
(See IWM-508)

For: Donald H. Richter and Lawrence G. Houk, DMEA
Requested by: Letter of July 16, 1953

Date August 3, 1953

Lot No. _____

Quantitative spectrographic analysis for beryllium and tungsten in a sample of alleged beryllium ore from Emerald Mine, Fresno County, California.

Plate W-595(2)

Laboratory No.	Field No.	Description
53-1819 MS	DMEA-3090	Beryllium ore

Laboratory No.	% Be	% W
53-1819 MS	.005	.008

By /s/ Janet D. Fletcher
Janet D. Fletcher

s/ Michael Fleischer
Geochemistry and Petrology Branch

jmc

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

Report No. IWM-508
Job No. 1219

For: Lawrence G. Houk, DMEA
Requested by: Memo dated July 16, 1953

Date July 20, 1953

Lot No. _____

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Molybdenite	0.5

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By

/s/ Donald H. Richter
Donald H. Richter

s/ Michael Fleischer
Geochemistry and Petrology Branch

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

Defense Minerals Administration
RECEIVED
JUL 28 1953

July 28, 1953

Memorandum

To: L. G. Houk, Chief, Nonmetallics Division, DMEA, Rm. 4639

From: R. F. Griffith, Rare and Precious Metals Branch

Subject: Request for Modification to DMEA-3090, U. S. Tungsten Mines, 736 Van Ness Ave., Fresno 1, California; Emerald Mine

Re: Beryllium

This office recommends that the subject modification be considered after receipt and study of the field team report; our memorandum dated July 1, recommended a field team examination.

The 10 percent BeO content reported in the subject modification appears to be abnormally high.

Signed

R. F. Griffith

C O P Y

U. S. TUNGSTEN MINES
736 Van Ness Avenue
Fresno, 1, California

July 19, 1953

Defense Minerals Exploration Adm.
Department of the Interior
Washington 25, D. C.

Attention: Lawrence G. Houk, Chief
Nonmetallic Minerals Division

Re: Docket No. DMEA-3090 - Beryllium
Emerald Mine, Fresno County, Calif.

Gentlemen:

Please consider this letter as a request for modification of both the amount applied for as well as the projected work under the above application.

Work since the date of the original request of June 27th now indicates that diamond drilling is not justified at this time. Ore has been uncovered at various points on and around the major pegmatite outcrop and it is believed that a drifting program is the much more practical for the present. Stripping and structure identification would proceed as before, but instead of diamond drilling a drift and laterals would be driven from the road cut at assay # (0), on the sketch map forwarded your office July 13th, for a total drift and lateral distance of approximately 225'. This drift would start in 10.% BeO ore and travel for a known 13' in this grade ore and would intersect the pegmatite at an angle of about 35 degrees. It would cut this dike and emerge under the Southeasterly area of 10.% ore. The laterals would be run as advisable from the main drift at contacts.

Based upon surface indications plus some cut and test pit exploration, this proceedure would be drifting in ore of varying grades for the entire distance. Depending upon the relative tonnages and grades of the explored area the back could then be mined by open pitting. Depth beyond the drift level could be explored at a later date by diamond drilling if justified by the drift showings.

On the above basis you are requested to make the following admendments to the above referenced application:

C O P Y

Change Schedule D as follows;

Delete Diamond drill, accessories & bits	$7,300.00
Add for rental of road grader to repair road. (not used for 17 years)	1,000.00
Delete 105 compressor and add 210 CF compressor for additional sum of	400.00
Net reduction	$5,900.00
Schedule D will now read	$4,640.00

(NOTE) Based upon the allowances noted in your letter of July 8 I would prefer to rent outside equipment than to employ mine at those figures and therefore leave the remainder of Schedule D as is except to note that these items of equipment will be rented from outside sources. The figures quoted are what will have to be paid at the very minimum.

Delete Schedule E	742.00

Change Schedule H as follows;

5% of $18,739.00 contingency fund	936.95
Change Recapitulation (and project total) to read	$19,675.95

It is hoped that prompt and favorable action can be taken upon this application in order that the project can be completed and actual production begun before winter stops all operations. From the work that has been done on the surface, and down to 10' depths, it would appear that the exploratory expense will be more than half returned from ore from the drift alone, It is further believed that the Government advance will be fully returned within the first six months of production activities. This belief is strengthened by the fact that enough ore is presently in sight to make full repayment, and even though only minor values are found through the exploratory project underground.

Sincerely,

G. McGuire Pierce dba
U. S. TUNGSTEN MINES

July 16, 1953

Memorandum

To: Mr. D. M. Larrabee, Geological Survey

From: Lawrence G. Houk, DMEA

Subject: Analysis of beryllium ore from the Emerald Mine, Fresno County, California, Docket No. DMEA-3090

Transmitted herewith is a sample received in connection with DMEA Docket 3090 which is reported to contain from 10 to 15% BeO. It is also reported to contain tungsten. This office is particularly interested in the beryllium, however, it would be well to note if any tungsten is present. The Operator claims the mineral to be phenacite.

LGHouk:gad 7/16/53

Copy to: Admr. R. File
Docket File
Mr. Houk

600

JUL 8 1953

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3090 - Beryllium-Tungsten
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

Reference is made to your application for exploration on a beryllium-tungsten mineralization in Fresno County, California.

Please submit a sketch map showing the dimensions of the beryllium-tungsten mineralization, the location of assays taken, and any assay certificates you may have in your possession. This office will be pleased to receive a representative sample of the mineralization to determine the beryllium mineral present.

The applicant must justify the purchase of complete diamond drilling equipment and demonstrate that it is more economical than contracting the work. Firm bids from drilling contractors may be compared to the cost of equipment, labor, and supplies. A monthly use allowance of 1/60 of the present value may be contributed by the Government for the Operator's equipment in good operating condition. The use allowance includes normal repairs and maintenance.

Please indicate under schedule 6 (c) of MF-103 the material and supplies that are owned by the Operator and purchased at salvage value at the termination of DMEA Contract No. Idm-166.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

LGHouk:gad 7/8/53
Copy to: Admr. R. File
Docket File
Field Team, Region III
Mr. Griffith, 3641A
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

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

July 1, 1953

Memorandum

To: L. G. Houk, Chief, Nonmetallics Division, DMEA, Rm. 4639

From: R. F. Griffith, Rare and Precious Metals Branch

Re: Beryllium

Subject: DMEA-5090. U. S. Tungsten Mines, 736 Van Ness Ave., Fresno 1, California

This office recommends that a field team examination be made of the subject property and that a report be submitted. During the course of the examination, an effort should be made to identify the beryllium mineral. The limestone and granite contact suggests tactite and the possible presence of helvite. At present, the beryllium industry is not adapted to the use of helvite. However, phenacite is readily acceptable should the beryllium mineral be identified as such.

Signed

R. F. Griffith

IN REPLY REFER TO:
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
[illegible] 1 1953

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

[illegible] 10, 195[illegible]

[illegible]

[illegible] (Carry-Ore Report)

[illegible]
[illegible]
Applicant [illegible] I. [illegible],
77[illegible],
[illegible] 1, California

[illegible]
[illegible] Co., Calif.
[illegible] applicant's [illegible]
[illegible]
[illegible]
chemical [illegible] by [illegible].

[illegible] 1. [illegible] no [illegible] beryllium [illegible], [illegible] no [illegible], [illegible].

2. [illegible] beryllium, [illegible].

3. The actual [illegible] in [illegible] beryllium [illegible] not given.

4. [illegible] examination.

5. [illegible], containing [illegible], etc.

6. [illegible].

7. [illegible].

8. The laboratory [illegible] no [illegible] of [illegible].

9. [illegible] (no [illegible]) [illegible], [illegible] too low, [illegible].

cc: [illegible] (3)

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3090

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 Assistance

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.

Copies to USGS, USBM AND TO REGION III.

Routing Slip

To:	Code 600, Rm. 4637	Date	6/29/53
To:	Code 600	Date	7-8-53
To:	Oper. Com.	Date	8- -53
To:	Code 600-Rm 4637	Date	8-12-53
To:	Code 600 Rm 4637	Date	9-17-53
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
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To:		Date	
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To:		Date	

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FILE COPY
SURNAME:

Houk

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

600

SEP 11 1953

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3090 - Beryllium
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

Reference is made to your letter of September 2, 1953, withdrawing your application for exploration assistance on the Emerald Mine, Docket No. DMEA-3090, in Fresno County, California.

A search of our records and a telephone call to the Bureau of Mines and the Defense Materials Procurement Agency fail to show any company by the name of The Trinity Trust of Mullan, Idaho, or the Four Square Gold Syndicate having made any application for Government assistance. The Regional Office of the Bureau of Mines located in Albany, Oregon, attention of Mr. Stephen M. Shelton, may have information on this particular area.

We appreciate your frankness in explaining the withdrawal of your application, and assure you that we do not consider you intentionally misrepresented the facts.

Sincerely yours,

C. O. Mittendorf

Administrator

LGHouk:gad 9/11/53
Copy to: Admr. R. File
Docket File
Field Team, Region III
Operating Committee
Mr. Larrabee, G-232 GSA Bldg.
Mr. Griffith, Room 3641A
Mr. Houk

R.C.G. 9-11-53

PROPERTIES AT MUD L[illegible]S, MOUNT NELSON AND SWAMP L[illegible] — FRESNO COUNTY

U. S TUNGSTEN MINES
736 VAN NESS AVENUE
FRESNO 1, CALIFORNIA
TELEPHONES FRESNO 7-6646 - 4-2603

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 3 - 1953

September 2, 1953

Defense Minerals Exploration Adm.
Department of the Interior
Washington 25, D. C.

Re: DMEA-3090 (Beryllium)
Emerald Mine

Attention: Mr. C. O. Mittendorf

Gentlemen:

I hereby withdraw my application for assistance in connection with the project identified by the above numbered docket.

In order that you may not consider me as entirely incompetent to arrive at logical conclusions from my exploratory work, I am enclosing copies of a few spectrographic reports from the Twining Laboratories, here in Fresno, and, from their report heading, "The Best Equipped Commercial Laboratories On The Pacific Coast". These are typical of nearly 30 analyses these people ran on this area and ore. On several occasions they were cautioned emphatically to report low on their actual readings, and that when they reported 10.% it was very important that they observed an absolute minimum of this amount.

Of the above analyses they reported 10.% in 16 different cases and orally informed me that in each case they had observed an estimated higher %. In all cases the 10.% readings came from one zone and one type of material (the same as sent to you) and I therefore assumed this was the area to develop. This I did moving over 500 ton of rock to establish an accesibe working face in this material. In the meantime I had sent samples to seven outside laboratories (including DMEA) for chemical analysis. Three of these found traces, two found around .006 and one found .92, the seventh (Beryllium Corp.) are unreported. These latter chemical returns all took over a month in reporting so I felt justified in the interim in basing my work and plans on the Twining reports. Obviously I was very wrong, but the reports were so consistently favorable that they overcame my normal skepticism of

NB

DEPARTMENT OF THE I...
Defense Minerals Administ...
RECEIVED

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

DOCKET NO. DMEA-3090 (BERYLLIUM)

this ore as a beryllium carrier.

I had not assumed that any appreciable WO_3 would be found in any of these samples as practically none had been observed. The Tungsten bearing area adjoins that from which all of these samples were taken. Here, however, even with considerable work, I have not developed sufficient tonnage of material to consider the immediate area of economic importance for tungsten production. There are three very high grade stringers, but they are now separated at such distances that each would have to be mined separately and there is little to indicate any persistence.

It is with considerable chagrin that this letter must be written, but as I review the many steps and proceedures that have been carefully taken it seems that I have been a victim of false laboratory findings to a greater degree than my own credulity.

I have had some correspondence with The Trinty Trust of Mullan, Idaho, who have a tungsten-gold mill and mine for sale. The property is, or was, known as the Four Square Gold Syndicate and they state that the "Government" has done considerable checking in the area, and inferred on their property, for tungsten and that their findings are reported as very favorable. Does your administration have any information on this property or area that could be communicated to me. They further state that there are two tungsten properties nearby that are ready to produce if the mill were put into operation, and that these two properties were checked by the "Government" and the owners thereof have "been offered substantial sums by the Government to produce tungsten". This latter statement is assumed to be sales talk, but I am very much interested in what DMEA or the USBM know of this area and what the potential is estimated to be. Any assistance which you can furnish in this matter will be very much appreciated.

A copy of this letter (without enclosures) is being sent to Mr. H. C. Miller, San Francisco in order that he may be informed that no further action is to be taken on the referenced application.

Sincerely,

G. McGuire Pierce

G. McGuire Pierce, dba
U. S. TUNGSTEN MINES

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 3 - 1953

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

2527 FRESNO STREET, FRESNO, CALIFORNIA. PHONE 3-2118
321 19TH STREET, BAKERSFIELD, CALIFORNIA. PHONE 8-8686

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

July 7, 1953 Examination 277941

For - U. S. Tungsten Mine
310 Griffith Way
Fresno, California

Sample - ORE, delivered by Col. Pierce, 7/6/53

	# 1 White Crystals	# 2 Dark Green
BERYLLIUM (spectrographic)	None	Approx. 10 percent

THE TWINING LABORATORIES

By Fred W Twining

DSP/mk

SCIENTIFIC AFFILIATIONS OF PRINCIPALS
U. S. D. A. Certified Cotton Seed Oil Laboratories, American Ceramic Society, American Chemical Society, American Foundrymen's Association, American Institute of Mining and Metallurgical Engineers, American Oil Chemist Society, American Public Health Association, American Society of Mechanical Engineers, American Society for Testing Materials, California Natural Gas Association and Society of Automotive Engineers.

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

2527 FRESNO STREET. FRESNO, CALIFORNIA. PHONE 3-2118

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SEP 3 - 1953

July 20, 1953 Examination 278207

For - U. S. Tungsten Mine
310 Griffith Way
Fresno, California

Sample - Five Ores, del'd. by Col. Pierce
7-10-53

BERYLLIUM CONTENT
SPECTROGRAPHIC ANALYSIS, APPROXIMATE
AMOUNTS, %

No. 15	.05
No. 16	.05
No. 17	10.
No. 19	10.
No. 20	10.

THE TWINING LABORATORIES

By Fred W Twining

dsp/ee

SCIENTIFIC AFFILIATIONS OF PRINCIPALS
American Council of Commercial Laboratories, American Ceramic Society, American Chemical Society, American Foundrymen's Association, American Institute of Mining and Metallurgical Engineers, American Oil Chemist Society, American Public Health Association, American Society of Mechanical Engineers, American Society for Testing Materials, California Natural Gas Association and Society of Automotive Engineers.

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

2527 FRESNO STREET, FRESNO, CALIFORNIA. PHONE 3-2118

321 19TH STREET, BAKERSFIELD, CALIFORNIA. PHONE 8-8686

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
SEP 3 1953

July 17, 1953 Examination 278232

For - U. S. Tungsten Mine
310 Griffith Way
Fresno, California

Sample - 2 Ores, delivered by Colonel Pierce, 7-17-53

BERYLLIUM CONTENT
SPECTROGRAPHIC ANALYSIS, APPROXIMATE
AMOUNTS, %

No. 21	10
No. 22	.05

THE TWINING LABORATORIES

By: Fred W Twining

DSP:jf

SCIENTIFIC AFFILIATIONS OF PRINCIPALS
U. S. D. A. Certified Cotton Seed Oil Laboratories, American Ceramic Society, American Chemical Society, American Foundrymen's Association, American Institute of Mining and Metallurgical Engineers, American Oil Chemist Society, American Public Health Association, American Society of Mechanical Engineers, American Society for Testing Materials, California Natural Gas Association and Society of Automotive Engineers.

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

2527 FRESNO STREET. FRESNO, CALIFORNIA. PHONE 3-2118

321 19TH STREET BAKERSFIELD, CALIFORNIA PHONE 8-8686

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 3 1953

July 29, 1953 Examination 278455

For - U. S. Tungsten Mine
310 Griffith Way
Fresno, California

2 Ores delivered by Col. Pierce July 27, 1953.

BERYLLIUM CONTENT
(Spectrographic)

Sample Number	Approximate Percentage
23	10
24	10

THE TWINING LABORATORIES

By Fred W Twining

DSP/mk

SCIENTIFIC AFFILIATIONS OF PRINCIPALS

U. S. D. A. Certified Cotton Seed Oil Laboratories, American Ceramic Society, American Chemical Society, American Foundrymen's Association, American Institute of Mining and Metallurgical Engineers, American Oil Chemist Society, American Public Health Association, American Society of Mechanical Engineers, American Society for Testing Materials, California Natural Gas Association and Society of Automotive Engineers.

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

1212 Flood Building
870 Market Street
San Francisco 2, Calif.

August 27, 1953

Mr. C. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket DMEA-3090 (Beryllium)
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

You have received a letter from Mr. C. O. Mittendorf, dated August 11, 1953, informing you that your application, DMEA-3090 (Beryllium), has been referred to this office for a field examination.

Inasmuch as the samples you submitted to Washington ran exceptionally low in Be and W, we are wondering if you still have enough interest in the property to warrant us making a field examination.

Probably the samples you sent to the Washington office were not representative of your ore, or possibly you have uncovered better mineralization than that which you sampled at that time. If so, kindly send us some samples so we can have them run in Reno. Then, if those samples indicate a more favorable beryllium content we will send our engineer and geologist to make a field examination.

Sincerely yours,

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

Copy to: DMEA, Washington, D. C.
E. H. Bailey, USGS
A. C. Johnson, Reno

913

FILE COPY
SURNAME:

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION 800
WASHINGTON 25, D. C.

July 16, 1953

Memorandum

To: Mr. D. M. Larrabee, Geological Survey

From: Lawrence G. Houk, DMEA

Subject: Analysis of beryllium ore from the Emerald Mine, Fresno County, California, Docket No. DMEA-3090

Transmitted herewith is a sample received in connection with DMEA Docket 3090 which is reported to contain from 10 to 15% BeO. It is also reported to contain tungsten. This office is particularly interested in the beryllium, however, it would be well to note if any tungsten is present. The Operator claims the mineral to be phenacite.

LGHouk:gad 7/16/53

Copy to: Admr. R. File
Docket File
Mr. Houk

R.C.S.
7-16-53

FILE COPY
SURNAME:

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

Selfridge
Hedges
Mitchell
Martin

AUG 11 1953

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3090 (Beryllium)
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

Since reviewing your application for assistance in exploring the above-named property, the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration has received the spectrographic and mineralogic report on the sample, which you sent us under seperate cover, as stated in your letter of July 13, 1953.

We regret to inform you that the sample assayed only 0.005 percent Be and 0.008 percent W. Only pyroxene, fluorite, garnet, and molybdenite were identified microscopically after crushing and separation by heavy liquids.

Under these circumstances, we can only refer the application to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination of the Emerald mine.

The regional office will contact you at an early date in regard to the examination of your property. Any assistance that you can give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

LGHouk/GSSelfridge/gad/bih
8/10/53
cc to: Docket
Admr. Reading File
Field Team, Region III
Operating Committee
Messrs. Larrabee GSA Bldg., G-232
Griffith R-3641A
Houk
Selfridge

R.C.G.
8-11-53

FILE COPY
SURNAME:

Houk

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

600

Mr. E. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3600 - Baryllium
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

Your application for assistance in exploring the subject property has been reviewed by the Nonmetallic Minerals Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination, should he deem it necessary.

The Regional Office will contact you at an early date, if an examination is to be made. Any assistance that you may give the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

LGHouk:gad 8/5/53

Copy to: Admr. R. File
Docket File
Field Team, Region III
Mr. Larrabee, G-232 GSA Bldg.
Mr. Griffith, 3641A
Mr. Houk
Operating Committee

FILE COPY
SURNAME:

Selfridge.
Martin

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

AUG 11 1953

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

Re: Docket No. DMEA-3090 (Beryllium)
U. S. Tungsten Mines
Emerald Mine
Fresno County, California

Dear Mr. Miller:

Please arrange for a field examination of the subject mine. Special emphasis should be given to the mineralogy, especially of the areas reported to consistently furnish high Be analyses. Sufficient samples should be taken for spectrographic analysis of one or more of these areas to conclusively prove the presence or absence of beryllium in interesting amounts. Alteration products should be included.

Early examination of the property will be appreciated.

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

A. R. Kinkel, Jr.
Member, Geological Survey

Enclosures (4)
LGHouk/GSSelfridge/gad/bih 8/10/53
cc to: Docket
Admr. Reading File
Operating Committee
Messrs. Larrabee GSA Bldg. G-232
Griffith R-3641A
Houk
Selfridge

R.C.J. 8-11-53

FILE COPY
SURNAME:

Houk

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

600

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

Subject: Docket No. DMEA-3090 - Beryllium
U. S. Tungsten Mines
Emerald Mine
Fresno County, California

Dear Mr. Miller:

Please review the subject application and arrange for a field examination if you deem it advisable.

Copies of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your information.

Sincerely yours,

Chairman, Operating Committee

Approved:

PS: Sampling and geologic mapping may be necessary to evaluate this proposal.

Member, Bureau of Mines

Member, Geological Survey

Enclosures 4

LGHouk:gad 8/5/53
Copy to: Admr. R. File
Operating Committee
Docket File
Mr. Larrabee, G-232 GSA Bldg.
Mr. Griffith, 3641A
Mr. Houk

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

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

Subject: Docket No. DMEA-3090 - Beryllium
U. S. Tungsten Mines
Emerald Mine
Fresno County, California

Dear Mr. Miller:

Please review the subject application and arrange for a field examination if you deem it advisable.

Copies of memoranda from the Geological Survey and the Bureau of Mines are enclosed for your information.

Sincerely yours,

Chairman, Operating Committee

Approved:

Member, Bureau of Mines

Member, Geological Survey

Enclosures 4

PS: Sampling and geologic mapping may be necessary to evaluate this proposal.

IN REPLY REFER TO:

G-MD-CNM

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG - 5 1953

August 4, 1953

Memorandum

REVIEW OF APPLICATION DMEA-3090 (beryllium)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: G. McGuire Pierce, U. S. Tungsten Mines, 736 Van Ness Avenue, Fresno 1, California.
Name of property: Emerald mine.
Location of property: On Dinkey Mountain, near Dinkey Creek, Fresno County, California.
Summary of applicant's proposal: See our memorandum June 30, 1953.
Sources of information on applicant's property: None.
Comments:

1. See our memorandum June 30, 1953.
2. Analysis (by U.S.G.S.) of samples: % Be .005 equals .015 Beo equals 0.150 beryl.

   This is extremely low grade, and beryllium-bearing mineral not determined. Since the samples submitted are commonly above average, this BeO content does not even approach the 10% figure mentioned by applicant, it is doubtful if average ore could be better.

3. New proposal by applicant requires "drifting in ore." If this grade of material could be classed as "ore" (which is impossible,) then the proposal is mining, which is not included in DMEA.

RECOMMENDATION: Denial.

(U.S.G.S. analysis is attached.)

D. M. Larrabee

D. M. Larrabee

9-011

Defense Minerals Administration
RECEIVED
AUG 5 1953

DMEA 3090

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Report No. IWS-423
Job-1219
(See IWM-508)

For Donald H. Richter and Lawrence G. Houk, DMEA
Requested by Letter of July 16, 1953

Date August 3, 1953

Lot No. _____

Quantitative spectrographic analysis for beryllium and tungsten in a sample of alleged beryllium ore from Emerald Mine, Fresno County, California.

Plate W-595(2)

Laboratory No.	Field No.	Description
53-1819 MS	DMEA-3090	Beryllium ore

Laboratory No.	% Be	% W
53-1819 MS	.005	.008

By Janet D. Fletcher
Janet D. Fletcher

S/ Michael Fleischer
Geochemistry and Petrology Branch
jmc

☆ U. S. GOVERNMENT PRINTING OFFICE: 1951 - 974763

9-011

Defense Minerals Administration
RECEIVED
AUG 5 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Report No. IWM-508 For Lawrence G. Houk, DMEA Date July 20, 1953

Job No. 1219 Requested by Memo dated July 16, 1953

Lot No. _____

Mineralogical Analysis of a Sample of Beryllium Ore, Emerald Mine, Fresno Co., California.

The above sample of beryllium ore was submitted primarily to determine if the reported 10 to 15% BeO (DMEA Docket 3090) is present as phenakite, the beryllium silicate, as has been claimed, or some other beryllium mineral.

Megascopically the ore is essentially a medium to coarse-grained pyroxenite, with a limonitic-type surface alteration. Colorless and pink crystalline minerals are present in minor amounts.

A portion of the unaltered material was ground to -60, +80 mesh, and the constituent minerals separated by heavy liquids (bromoform and methylene iodide) and isodynamic separator.

The following 4 minerals, which constitute at least 99% of the rock or ore, were separated and identified:

	Approx. wt. %
Pyroxene	87.0
Fluorite	8.0
Garnet	4.5
Molybdenite	0.5

No beryllium mineral was found in the unaltered ore. It is possible, however, that the beryllium may occur as a secondary mineral in the highly altered areas of the ore.

By Donald H. Richter

Donald H. Richter

s/ Michael Fleischer
Geochemistry and Petrology Branch

☆ U. S. GOVERNMENT PRINTING OFFICE: 1951 - 974763

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 29 1953

July 28, 1953

Memorandum

To: L. G. Houk, Chief, Nonmetallics Division, DMEA, Rm. 4639

From: R. F. Griffith, Rare and Precious Metals Branch

Subject: Request for Modification to DMEA-3090, U. S. Tungsten Mines, 736 Van Ness Ave., Fresno 1, California; Emerald Mine

Re: Beryllium

This office recommends that the subject modification be considered after receipt and study of the field team report; our memorandum dated July 1, recommended a field team examination.

The 10 percent BeO content reported in the subject modification appears to be abnormally high.

R. F. Griffith

R. F. Griffith

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7/22/53

REFERRED TO:

1. Code 600 Room 4637
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: 1 - Cc. Dunn Files
1 - Tech Lib.
1 - Bus Mines
1 - Files Section

Check (X) before the items needing attention. ilb

ROBERT E. ADAMS
Initials of sender.

GPO 16—63815-1

U. S TUNGSTEN MINES
736 VAN NESS AVENUE
FRESNO 1, CALIFORNIA
TELEPHONES FRESNO 7-6646 - 4-2603

July 19, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 20 1953

Defense Minerals Exploration Adm.
Department of the Interior
Washington 25, D. C.

Attention: Lawrence G. Houk, Chief
Non-metallic Minerals Div.

Re: Docket No. DMEA-3090 - Beryllium
Emerald Mine, Fresno County, Calif.

Gentlemen:

Please consider this letter as a request for modification of both the amount applied for as well as the projected work under the above application.

Work since the date of the original request of June 27th now indicates that diamond drilling is not justified at this time. Ore has been uncovered at various points on and around the major pegmatite outcrop and it is believed that a drifting program is the much more practical for the present. Stripping and structure identification would proceed as before, but instead of diamond drilling a drift and laterals would be be driven from the road cut at assay # (0), on the sketch map forwarded your office July 13th, for a total drift and lateral distance of approximately 225'. This drift would start in 10.% BeO ore and travel for a known 13' in this grade ore and would intersect the pegmatite at an angle of about 35 degrees. It would cut this dike and emerge under the Southeasterly area of 10.% ore. The laterals would be run as advisable from the main drift at contacts.

Based upon surface indications, plus some cut and test pit exploration, this procedure would be drifting in ore of varying grades for the entire distance. Depending upon the relative tonnages and grades of the explored area the back could then be mined by open pitting. Depth beyond the drift level could be explored at a later date by diamond drilling if justified by the drift showings.

On the above basis you are requested to make the following admendments to the above referenced application:

// Change Schedule D as follows; \\

U. S. TUNGSTEN MINES, FRESNO, CALIF: DMEA-3090 - Beryllium

// Delete Diamond drill, accessories & bits	$7,300.00 //
// Add for rental of road grader to repair road. (not used for 17 years)	1,000.00 //
// Delete 105 compressor and add 210 CF compressor for addidional sum of	400.00 //
Net reduction	$5,900.00 //
// Schedule D will now read	$4,640.00 //

(NOTE) Based upon the allowances noted in your letter of July 8 I would prefer to rent outside equipment than to employ mine at those figures and therefore leave the remainder of Schedule D as is except to note that these items of equipment will be rented from outside sources. The figures quoted are what will have to be paid at the very minimum.

// Delete Schedule E	742.00 //
// Change Schedule H as follows;	
// 5% of $18,739.00 contingency fund	936.95
// Change Recapitulation (and project total) to read	$19,675.95 //

It is hoped that prompt and favorable action can be taken upon this application in order that the project can be completed and actual production begun before winter stops all operations. From the work that has been done on the surface, and down to 10' depths, it would appear that the exploratory expense will be more than half returned from ore from the drift alone. It is further believed that the Government advance will be fully returned within the first six months of production activities. This belief is strengthened by the fact that enough ore is presently in sight to make full repayment, and even though only minor values are found through the exploratory project underground.

Sincerely,

G. McGuire Pierce dba
U. S. TUNGSTEN MINES

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 7/15/53

REFERRED TO:

1. Code 600, Rm. 4637
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: [illegible]

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

U. S TUNGSTEN MINES
736 VAN NESS AVENUE
FRESNO 1, CALIFORNIA
TELEPHONES FRESNO 7-6646 - 4-2603

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 15 1953

July 13, 1953

Defense Minerals Exploration Adm.
Department of the Interior
Washington, D. C.

Attention: Lawerence G. Houk, Chief
Non-metallic Minerals Div.

Re: Docket No. DMEA-3090 - Beryllium
Emerald Mine, Fresno County, Calif.

Gentlemen:

Replying to your letter of July 8th re the above subject matter. I am enclosing herewith a sketch of the immediate area surrounding the mineralized outcrops. This has been prepared hastily and from field notes, and while not exact as to measurements it is not over 5% in error.

I do not have all assay certificates in my possession due to the fact that on a number of assays I have assisted in the laboratory and a great many tests have been run to localize the ore that have not been oficially and formally reported. Five additional Spectrographic tests were just reported to me over the phone and will not be confirmed until next Thursday in writing. In two of these I was testing soil and float material to determine new areas and in the others (3) were to test oxidized surface and contact material as well as one new area. The irregularities of Spectrographic analysis is fully appreciated, but you are advised that in all cases where the results have shown 10.% the actual reading has been nearer 15.%. I will attach those copies that I have and code them to the sketch attached for area identification.

In addition to the Spectrographic results reported I have spent considerable time at the Coast Laboratories on chemical analyses. No part of the Beryllium carrying ore was exposed and yet positive reactions were obtained in varying amounts from all over the area. For this reason a great deal of work was required to even locate the area of principal Beryllium mineralization. This is now well established on both sides of the pegmatite formation and the ore is now recognized when exposed. The 10.% plus values are always present where the fluorescent crystals are seen and in the green material. The crystals have as yet not been identified, but tentatively the appear to be either Fluorite or Aragonite. Their principal value lies in the fact that their presence seems to be necessary to high grade Beryllium mineralization.

The phenocrysts in the dike itself, when green, carry some Beryllium values. The exact type of crystal or the constant value thereof has not yet been determined. The dike is probably not a true pegmatite, but more on the syenite-tourmaline order. It would seem from what little work I have done that the quartz has crystallized largely in a large dike to the East, that the mica (as phlogopite) crystallized next to the Quartz and at the contact with the syenite-tourmaline structure. It is at this latter contact where the larger of the two Beryl occurences appears. Some significance must be attached to the fact that plus 10% Beryl ore, of finer grain structure, is found on a reverse slope from the principal deposit at a point several hundred feet distant, and at such a point that it would seem to have been impossible to have floated there from the main deposit. No work has been done here, but a hornfels formation is exposed that may well be a continuation of the one shown on the attached sketch.

Diamond drill contractors, at least in this area, do not even care to bid on small jobs such as this. With several large dam projects in work, much oil drilling and formation testing going on, the average contractor can do much better on these stable activities. A job of this nature gets the broken-down equipment, and runner, and then are left to shift for themselves. I have owned and operated diamond drill rigs and know how to handle them to the greatest advantage on a small variable project such as this. At the moment I can plan only about 300' of hole to good advantage and by the time surface stripping and structure identification were completed so that a contractor, or contractors, could be called in to estimate the job, the snow would run everyone out. With our own rig we could plan and drill as the surface work progresses, and not be hampered by price adjustments through those necessary plan changes that always occur on these smaller projects. I may have only enough water by the time diamond drilling started to run every other day without a long hard haul, and no contractor could stand this type of intermittent operation, without prohibitive cost.

My TD-18 bulldozer is valued at around $6,000. and on the basis of the 1/60 use allowance stated in your letter this would allow me about $100.00 a month for this piece of equipment which has been earning almost this much each day. My trucks are worth around $1,000. each so they would be worth about $16.00 a month, or about the equivalent to their anti-freeze requirements.

With reference to the last paragraph of your letter of July 8, 1953, I am unfamiliar with the DMEA contract number that you have used as it is the first time this number has appeared in any correspondence to me. If

you have reference to the project that I carried out on the Mud Lakes #7 Tungsten exploration, that has been known and referenced by now five different numbers, I can answer your question by saying that the property in question was sold recently for the sum of $500.00. That is all of the property I owned at Mud Lakes was sold for this amount. Included in this personal property list were all of those items I purchased from the U. S. Government for $50.00 plus all of the other personal property I owned there in which the government had no interest, and which had cost me something over $3,000.00 personally.

In this connection and in view of the fact that this other project has been referenced in this present correspondence, I wish to take this means of notifying your agency that my lease on the Mud Lakes properties was cancelled, because of non-performance, by the owner and that he has leased the properties to another operator. They are, as I understand it, now moving equipment and a mill to Mud Lakes #7 claim and plan to start operations at an early date. You are also informed the the owner of these properties, H. A. Savage, assumed by written agreement, all of the obligations that I may have incurred as a result of the exploratory loan made by the Government.

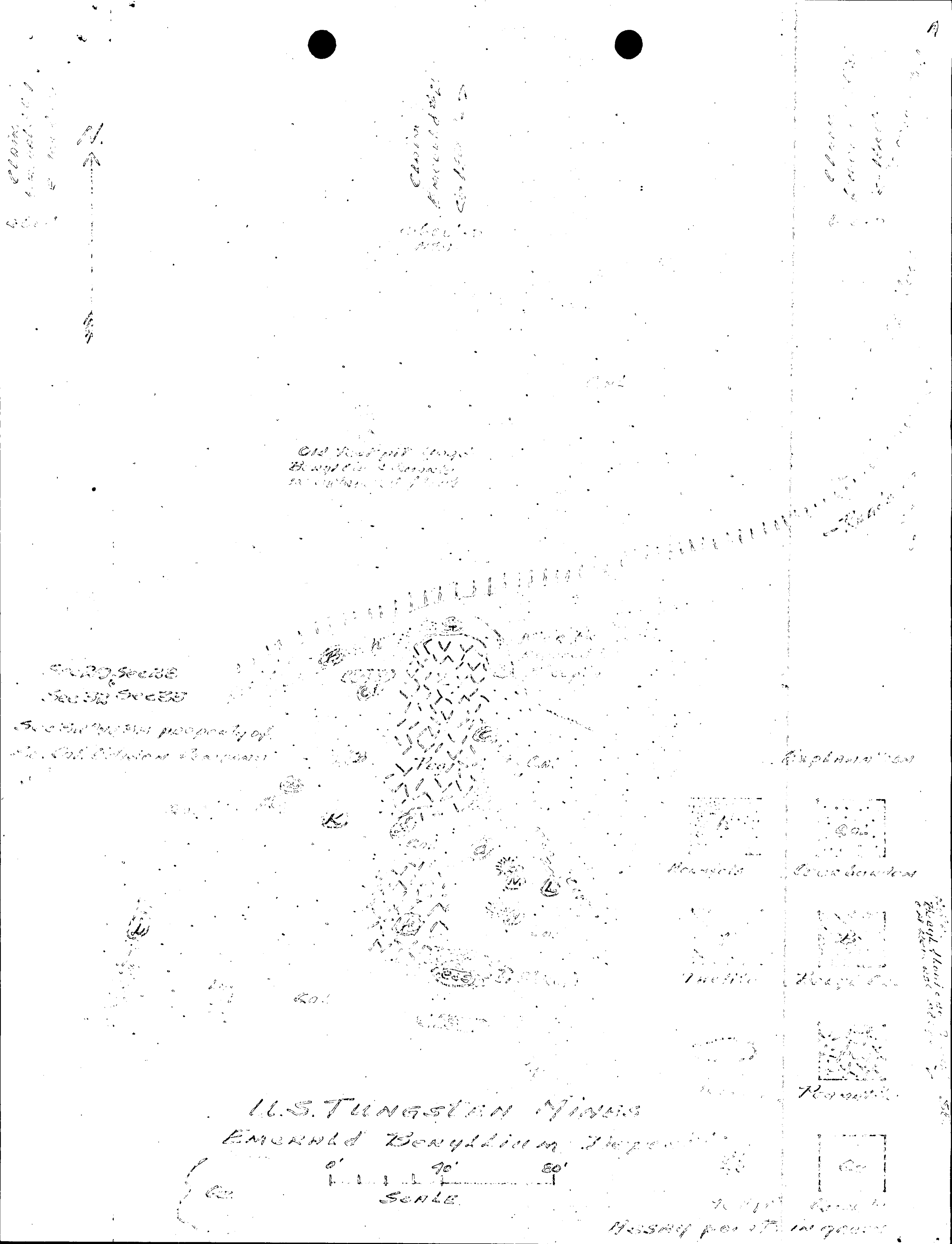
Under separate first class mail you are being sent a sample which is representative of an area known now to be of the following dimensions, proven but not limited to: length 40', width 16', depth 8'. This does not include the area to the West of the "pegmatite" as this has been opened by only one trench and one test pit. Each of these openings produced material that analyzed 5-10.% by spectrograph, but based upon comparative tests and chart curves I would say that they were both a strong 10.% BeO.

You may revise the schedules which were submitted with my application to conform to established Government regulations as you see fit, and this letter will constitute my written assent to those revisions. However, if the principal amount applied for is reduced more than 10% by these changes, please so notify me by air mail and cancel the application at the same time. It is impossible to properly develop a property such as this, particularly an ore of this elusive character, without adequate financing and if this cannot be secured through your agency with reasonable dispatch, then other and immediate plans must be made.

Sincerely,

G. McGuire Pierce

G. McGuire Pierce dba
U. S. TUNGSTEN MINES


N.
Sec 29 Sec 28
Sec 32 Sec 33
Explanation
U.S. Tungsten Mines
Emerald Beryllium Deposit
0'
40'
80'
Scale

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST
2527 FRESNO STREET, FRESNO, CALIFORNIA. PHONE 3-2118
321 19TH STREET, BAKERSFIELD, CALIFORNIA. PHONE 8-8686

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

June 22, 1953 Examination 277504

For - U. S. Tungsten Mines
Col. G. M. Pierce
310 Griffith Way
Fresno, California

3 Samples - Ore, received 6/18/53

SPECTROGRAPHIC ANALYSIS
APPROXIMATE AMOUNTS, %

Sample Marked:	WSB	NBB	ETG
Iron	3.0	10.	3.0
Aluminum	0.1	0.1	0.1
Manganese	0.1	0.5	0.1
Copper	.01	.001	.01
Beryllium	.01	.001	1.0
Tungsten	.001	0.1	.01
Calcium	5.0	5.0	5.0
Strontium	.01	.01	.01
Magnesium	0.1	.01	.01
Titanium	.01	.01	.01
Zinc	.001	.001	0.1
Sodium	.01	.01	.01
Potassium	1.0	1.0	1.0
Silicon	30.	20.	30.
Non metallic Elements	Remainder	Remainder	Remainder

THE TWINING LABORATORIES

By Fred W Twining

DSP/mk

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

2527 FRESNO STREET. FRESNO, CALIFORNIA. PHONE 3-2118

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

June 25, 1953 Examination 277637

For - U.S. Tungsten Mine
310 Griffith Way
Fresno, California

Sample - Ore, received 6-24-53

SPECTROGRAPHIC ANALYSIS
Approximate Amounts, %

Beryllium - - - - - - - - - - - - - - - 0.2

THE TWINING LABORATORIES

By Fred W Twining

DSP/ml

SCIENTIFIC AFFILIATIONS OF PRINCIPALS

U. S. D. A. Certified Cotton Seed Oil Laboratories, American Ceramic Society, American Chemical Society, American Foundrymen's Association, American Institute of Mining and Metallurgical Engineers, American Oil Chemist Society, American Public Health Association, American Society of Mechanical Engineers, American Society for Testing Materials, California Natural Gas Association and Society of Automotive Engineers.

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

2527 FRESNO STREET, FRESNO, CALIFORNIA. PHONE 3-2118

321 19TH STREET, BAKERSFIELD, CALIFORNIA. PHONE 8-8686

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

June 26, 1953 Examination 277677

For - U.S. Tungsten Mines
310 Griffith Way
Fresno, California

Sample - 5 Ores, delivered by G.M. Pierce, 6-25-53

For - Beryllium Content

SPECTROGRAPHIC ANALYSIS
Approximate Amounts, %

#1	10
#2	None
#3	1.0
#4	None
#5	None

THE TWINING LABORATORIES

By Fred W Twining

DSP/ml

SCIENTIFIC AFFILIATIONS OF PRINCIPALS

U. S. D. A. Certified Cotton Seed Oil Laboratories, American Ceramic Society, American Chemical Society, American Foundrymen's Association, American Institute of Mining and Metallurgical Engineers, American Oil Chemist Society, American Public Health Association, American Society of Mechanical Engineers, American Society for Testing Materials, California Natural Gas Association and Society of Automotive Engineers.

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

2527 FRESNO STREET, FRESNO, CALIFORNIA. PHONE 3-2118

321 19TH STREET, BAKERSFIELD, CALIFORNIA. PHONE 8-8686

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

July 7, 1953 Examination 277941

For - U. S. Tungsten Mine
310 Griffith Way
Fresno, California

Sample - ORE, delivered by Col. Pierce, 7/6/53

	# 1 White Crystals	# 2 Dark Green
BERYLLIUM (spectrographic)	None	Approx. 10 percent

THE TWINING LABORATORIES

By Fred W Twining

DSP/mk

15 R - Beryllium .0 Trace
16 L - .0 Trace
17 M - 5-10%
17 N 5-10%
20 O 5-10%

Returns phone of Fred Twining - confirmation will be mailed me 7/12

SCIENTIFIC AFFILIATIONS OF PRINCIPALS

U. S. D. A. Certified Cotton Seed Oil Laboratories, American Ceramic Society, American Chemical Society, American Foundrymen's Association, American Institute of Mining and Metallurgical Engineers, American Oil Chemist Society, American Public Health Association, American Society of Mechanical Engineers, American Society for Testing Materials, California Natural Gas Association and Society of Automotive Engineers.

FILE COPY
SURNAME:

Matteodorf

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C. 600

JUL 8 1953

Mr. G. McGuire Pierce
U. S. Tungsten Mines
736 Van Ness Avenue
Fresno 1, California

Re: Docket No. DMEA-3090 - Beryllium-Tungsten
Emerald Mine
Fresno County, California

Dear Mr. Pierce:

Reference is made to your application for exploration on a beryllium-tungsten mineralization in Fresno County, California.

Please submit a sketch map showing the dimensions of the beryllium-tungsten mineralization, the location of assays taken, and any assay certificates you may have in your possession. This office will be pleased to receive a representative sample of the mineralization to determine the beryllium mineral present.

The applicant must justify the purchase of complete diamond drilling equipment and demonstrate that it is more economical than contracting the work. Firm bids from drilling contractors may be compared to the cost of equipment, labor, and supplies. A monthly use allowance of 1/60 of the present value may be contributed by the Government for the Operator's equipment in good operating condition. The use allowance includes normal repairs and maintenance.

Please indicate under schedule 6 (c) of MF-103 the material and supplies that are owned by the Operator and purchased at salvage value at the termination of DMEA Contract No. Lim-E68.

Sincerely yours,

SIGNED

Lawrence G. Houk, Chief
Nonmetallic Minerals Division

LGHouk:gad 7/8/53
Copy to: Admr. R. File
Docket File
Field Team, Region III
Mr. Griffith, 3641A
Mr. Larrabee, G-232 GSA Bldg.
Mr. Houk

R.G.S.
7-8-53

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

July 1, 1953

Memorandum

To: L. G. Houk, Chief, Nonmetallics Division, DMEA, Rm. 4639

From: R. F. Griffith, Rare and Precious Metals Branch

Re: Beryllium

Subject: DMEA-3090. U. S. Tungsten Mines, 736 Van Ness Ave., Fresno 1, California

This office recommends that a field team examination be made of the subject property and that a report be submitted. During the course of the examination, an effort should be made to identify the beryllium mineral. The limestone and granite contact suggests tactite and the possible presence of helvite. At present, the beryllium industry is not adapted to the use of helvite. However, phenacite is readily acceptable should the beryllium mineral be identified as such.

R. F. Griffith

R. F. Griffith

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL - 1 1953

IN REPLY REFER TO:

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

June 30, 1953

Memorandum

REVIEW OF APPLICATION DMEA-3090 (beryllium phenacite)

To: L. G. Houk, Defense Minerals Exploration Administration
From: D. M. Larrabee, U. S. Geological Survey
Applicant's name and address: U. S. Tungsten Mines,
736 Van Ness Ave.,
Fresno 1, California
Name of property: Emerald Mine
Location of property: Fresno Co., Calif.
Summary of applicant's proposal: Camp establishment
3000'-4000' core drilling, AX
20 dozer cuts 1000' x 5'-15' deep
channel sampling by Jackhammer.

Comments:

1. Since there is no known way to recover beryllium from phenacite, there is no justification, as per the wording of the Defense Minerals Acts, etc., for approving this application.
2. The management, from records of DMEA #1559 for tungsten, does not meet the requirement of the DMEA program layout as to ability, etc.
3. The actual number of samples taken, the manner in which they were taken, their location, the quantity of beryllium present, and the manner of analysis are not given.
4. If interested in this property, then a few samples should be submitted for mineral determination.
5. Amount of proposed stripping and drilling is excessive in view of no knowledge of dimensions of the pegmatite, its contact containing phenacite, etc.
6. The anticipated consultant is not named.
7. The supervision is not specified.
8. The laboratory to do the analytical work was not specified , nor any indication as to number of analyses planned for the $1500 requested.
9. Unless all necessary tools (<u>not accessories</u>) are included with the cost of the drill rig, then the $75 figure for hand tools is much too low, $250 being a more realistic figure.

10. We estimate that the 20 dozer cuts might have an average width of 11' or 220' total, which seems excessive stripping. Certainly 1000' length is excessive at this stage.
11. No layout of the proposed plan has been seen, even sketch in advance of stripping and drilling; rather it seems more like a dream.
12. What equipment does the operator have "on hand", which he intends to use? Appraisal value of Government equipment was $175.

RECOMMENDATION: Denial on several of the above counts.

D. M. Larrabee

D. M. Larrabee

June 29, 1953

Mr. G. McGuire Pierce, Managing Owner
U.S. Tungsten Mines
736 Van Ness Ave.
Fresno 1, California

Subject: DMEA-3090
Re: Exploration Assistance
Emerald Mine

My dear Mr. Pierce:

The receipt of your application dated June 27, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3090 and referred to the Nonmetallic Minerals Division.

Kindly refer to DMEA-3090 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams,
Chief, Operation's Control
and Statistics Division

PROPERTIES AT MUD LAKES MOUNT NELSON AND SWAMP LAKES FRESNO COUNTY

U. S TUNGSTEN MINES
736 VAN NESS AVENUE
FRESNO 1, CALIFORNIA
TELEPHONES FRESNO 7-6646 - 4-2603

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 2 1953

June 27, 1953

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

Attention: Mr. Clarence O. Mittendorf, Adm.

Subject: Beryllium, aid in exploration for

Gentlemen:

Enclosed you will find completed application for financial assistance in the conduct of an exploration program on Beryllium properties which I own.

Intermittently over the past year I have been examining this property, first for Tungsten and more recently for Beryllium. It is quite a large structure and the Tungsten content has always been just a little below commercial grade on every test, except for several rather high grade areas of small dimension. However on practically every test from all over the area I have had Beryllium readings. It has taken considerable time and a great deal of laboratory work to isolate the area in which the higher values occur. This was hampered a little by assuming that the ore was Beryl and concentrating on the identification thereof.

The area which consistently shows values of 10.% and over has now been defined within the outcrop and I assure you it appears to be quite substantial. The 10.% values come from the entire width of a 12-15' zone near the granite contact of the pegmatite and the strength of the latter with its enclosing quartz would indicate an excellent possibility of major tonnage. Values do not come from sorted ore, but from the entire structure. While the mineral has not as yet been identified it is my belief, shared by Dr. Piston of the Twining Laboratories, and the chemists of Coast Laboratories that the carrier is probably phenacite, due principally to the unusually high Beryllium content.

I am unable to carry this project forward as it should be done, as I drained my available cash quite low in spending over $55,000. on the Mud Lakes Tungsten project. I proved over one and a quarter million dollars in recoverable Tungsten there, but DMPA would not go along on production assistance. As this is a seasonal operation speed of decision is of utmost importance. The project

might possibly be concluded for less than has been set forth in the attached application, but I cannot put myself in the position again that applied to 1559-X. Here I applied for what I thought would be the actual cost and then allowed myself to be talked-down on what the amount should be by Government field men. The final cost came to approximately my original estimate and application and the result of this was that the Government participated to less than 20% of the actual cost of a Tungsten project.

On the basis of considerable work on this property I believe that it has excellent potential for substantial tonnage of high grade Beryllium ore. The structure is very large and from surface indications should extend for a length of over 1000'. The depth can only be determined by a comprehensive drilling program. One of the redeeming features of this project is that wherever the Beryllium occurs there is always a fair Tungsten showing.

I extend to Mr. Mittendorf and to Mr.Selfridge my very best personal regards and I request that action be taken upon this application as soon as possible, and that I be notified of such decision with dispatch.

Sincerely,

U. S. TUNGSTEN MINES

By Mc Quiss Pierce

Managing owner

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 42-R1035.2.

Defense Minerals Administration
JUN 29 1953

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA - 3090
Metal or Mineral
Date Received 6/29/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: U. S. TUNGSTEN MINES, 736 VAN NESS AVE., FRESNO 1, CALIF.
(G. MCGUIRE PIERCE-SOLE OWNER)

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Claims Emerald #s One, Two and Three.
The NW 1/4 of the NW 1/4 Section 33, Township 10S, Range 26E, MDB&M,
Fresno County, Calif.

(*b*) State any mine name by which the property is known. Emerald Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner 3 valid mining claims, negotiating for lease on adjoining property held in fee.

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property. Owner of property to be explored.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Book # 3321 page 354, 355 and 356, Fresno County, Calif.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore BERYLLIUM

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 5 days and be completed within 65 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money and [X] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated JUNE 27, 1953

U. S. TUNGSTEN MINES
(Applicant)

By G. McGuire Pierce
G. MCGUIRE PIERCE, MANAGING OWNER

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—66551-1

SUPPLEMENTAL DATA

to accompany

APPLICATION FOR AID IN EXPLORATORY PROJECT

from

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

3. (c) Owner of three valid mining claims located in SW 1/4 of SW 1/4 Sec 28 upon which Beryllium has been established on one claim. Negotiating with fee owner (Southern Calif. Edison Co.) of adjoining property in Sec 33 upon which the same ore and strike appears.

4. (a) Work to date consists of location work and sampling. The property is accessible by adequate logging road.

(b) New location, no production, no proven reserves.

(c) A pegmatite formation between limestone and granite, with a substantial quartz inclusion. System bears North and South, is exposed 50' width by approximately 130' length and apparently covered by alluvium on North end. South end of exposure seems to be terminated by a quartz outcrop of substantial proportions. The quartz inclusion outcrops 1000' Northerly from the principal area, but no sampling has been done at this point due to presence of considerable fill material. Beryllium in minor amounts are found over the entire outcrop, ranging from 0.1 to 1.0 per cent. A great many laboratory (chemical) and Spectrographic analyses have been run to localize the mineralized zone. This has now been established on the East wall (next to Granite and between this wall and a normal granitic pegmatite). The exact Beryllium bearing mineral has not as yet been identified, but it does not respond as Beryl and appears to be Phenacite. Samples from the determined area run from 1. to over 10. % Beryllium and are associated with Scheelite containing over 1.% WO_3. The structure carrying these higher values is approximately 12 feet in width with undetermined depth and length.

(d) The property is located on a good private logging road which will require minor repair. Access over this road has been granted for exploratory purposes and will be granted for mining purposes for a small percentage of the net profits. The road is owned or controlled by two very reputable companies. Should this arrangement not develop, or be satisfactory, access can be gained by construction of 3/4 mile of new road over timber covered side hill in dirt and on Forest Service land.

(e) All but power are available. The property is located on Dinkey Mountain, near Dinkey Creek, Calif. (a summer resort) 63 miles from Fresno, Calif. and at an elevation of 6200'. Is 4 miles from improved oiled road and 13

Supplemental Data

application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

(e) cont'd. miles from Shaver Lake, Calif. to which point the road is all-season. Winter operations in the area of the property would require that this 13 miles be kept open by the operator, which would not be difficult.

5. (a) Beryllium.

(b) The work will consist of; Camp establishment, Diamond drilling, surface stripping, assaying and mill testing. The diamond drilling cannot be mapped until the surface stripping has been partially completed in order to more completely develop strike and dip. Water for camp and drilling is available at springs 1000' distant and will be pumped and piped to point of use. Stripping will consist of approximately 20 cuts by bulldozer over a distance of 1000' through from 5 to 15' of overburden. Channel sampling will be by jack hammer in order to provide for formation testing at the same time. A diamond drill will be purchased and operated with paid runner. This is far more economical than contract work on this type project. It is estimated that between 3000 and 4000' of core drilling will be required to properly test the structure.

(c) Answered on form.

(d) All of this material is on file with DMEA under a former completed DMEA contract #1559 X. The applicant will supervise all operations.

6. (a) None.

(b) Schedule B attached.

(c) Schedule C attached.

(d) Schedule D attached.

(e) Schedule E attached.

(f) Schedule F attached.

(g) Schedule G attached.

(h) Schedule H attached.

7. (a) Yes.

(b) Money and use of my present equipment.

SCHEDULE B

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

1 Tractor operator	20 days @ $20.00	$ 400.00
1 Drill runner	60 days @ 24.00	1,440.00
1 Helper	60 days 16.00	960.00
1 Jack Hammer operator	40 days @ 16.00	640.00
1 Truck driver	60 days @ 12.00	720.00
1 Laborer	60 days @ 12.00	720.00
1 Cook	60 days @ 12.00	720.00
1 Supervisor	60 days @ 24.00	1,440.00
1 Consultant	10 days @ 50.00	500.00
	Schedule total	$7,540.00

SCHEDULE C

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

Galley equipment. (Stove, utensils, dishes, etc.		$ 150.00
Heating stoves		30.00
Miscl. hand tools		75.00
Pipe tools		40.00
Gasoline	500 gallons @ .32	160.00
Diesel fuel	1000 gallons @ .15	150.00
Lubricants		30.00
Explosives incl. blasting machine		260.00
Drill Bits	20 @ $21.00	420.00
Drill steel		80.00
1000 feet used water pipe and fittings		350.00
Used water tank		75.00
Valves, strainers etc.		75.00
Generator rental		150.00
10 Bunks with pads and covers		170.00
	Schedule total	$ 2,215.00

SCHEDULE D

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

Outside equipment

Used hydraulic feed diamond drill with all accessories for drilling to 500' AX.		$4,000.00
30 Diamond drill bits, net cost		3,300.00
2 months rental of 105 CF compressor with hammer, hose and attachments		480.00

Operator owned equipment

Suggested use-allowance

TD-18 Bulldozer	20 days @ $75.00	1,500.00
2 Trucks	60 days $10.00 each	1,200.00
Water pump	60 days 1.00	60.00
	Schedule total	$ 10,540.00

SCHEDULE E

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

Pump repairs	$ 100.00
TD-18 cables, welding and minor repairs	330.00
Truck tires 6@ $52.00	312.00
Schedule total	$ 742.00

SCHEDULE F

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

Two used 16X20 tents	@ $60.00	$ 120.00
Three 20 X 24 Tarpaulians	50.00	150.00
Lumber for decks, tables, benches, etc.		340.00
	Schedule total	$ 610.00

SCHEDULE G

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

Estimated operating repairs to all equipment for a 60 day operating period	$ 800.00
Laboratory work	1,500.00
Accounting	300.00
Workmen's Compensation Insurance	754.00
Employers Liability and Liability Ins.	100.00
Pay-roll taxes	280.00
Schedule total	$3,734.00

SCHEDULE H

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

Though most contingencies that are normal to an operation of this nature have been considered in the foregoing schedules, it is considered that others of an unknown and impossible to forsee nature may arise, For this reason it is believed that a contingency fund of 5.% of the total amount should be added and sufficient.

5.% of $25,381.00	$ 1,269.05
Schedule total	$1,269.05

RECAPITULATION

to accompany application of

U. S. TUNGSTEN MINES, 736 VAN NESS AVENUE, FRESNO 1, CALIF.

Recapitulation of Schedules B to H inclusive and totaling the entire cost of the project.

SCHEDULE B	$ 7,540.00
SCHEDULE C	2,215.00
SCHEDULE D	10,540.00
SCHEDULE E	742.00
SCHEDULE F	610.00
SCHEDULE G	3,734.00
SCHEDULE H	1,269.05
PROJECT TOTAL	$ 26,650.05