SEP 4 1951

The Bonus Mining and Milling Company
Claude O. Eckel - Owner
% A. B. Taillard
180 North Church Street
Tucson, Arizona

In reply please refer to
DMA-455X

Dear Mr. Taillard:

The application of the Bonus Mining and Milling Company has been carefully reviewed. This review included a field examination and a study of the data submitted.

It was found that no mineable ore reserves exist. The average assays of exposed mineralized sections show very little tungsten. No evidence has been shown which would indicate the possibility of locating commercial ore bodies.

Therefore, we regretfully deny your application.

Very truly yours,

Tom Lyon

Tom Lyon
Director, Supply Division

CHHacoby:ec
August 22, 1951

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Field Team Region IV
Mr. Lemmon
Mr. Geehan
Files

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

SEP 4 1951

[illegible]

[illegible] Reports and Records Unit

[illegible] Director, [illegible] Division

[illegible] Tungsten Branch

[illegible] Tungsten
[illegible] Mine and Milling [illegible]
[illegible] - [illegible]
[illegible]
[illegible] North [illegible] Street
[illegible], Arizona

[illegible]:

It was found that no minerals are [illegible]. The average assays of [illegible] mineralized sections [illegible] tungsten. The horizontal extent of the veins is limited and [illegible] the strike. [illegible] veins [illegible] were visible. The field team reports [illegible] not [illegible] to be [illegible] of finding [illegible] [illegible].

[illegible]:

[illegible] file [illegible].

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

[illegible]

[illegible]:

Tom Lyon

cc: [illegible] File
Reports and Records Unit
Mr. Holderer
Field Team Region IV
Mr. [illegible]
Mr. [illegible]
Files

[illegible], [illegible] Division

[illegible]
August 24, 1951

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DMA-455X Tungsten

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20.	1 copy letter to Eckel from from Bradely dated	3/19/51
21.	1 copy letter to Boyd from Eckel dated	2/17/51
22.	1 copy letter to Eckel from Fernstram dated	2/15/51
23.	1 copy Referral Sheet dated	1/22/51
24.	1 copy Letter to Boyd from Eckel dated	7/29/51
25.	1 copy letter to Eckel from Tully dated	1/24/51
26.	1 copy letter to Tully from Eckel dated	1/29/51
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28.	1 copy letter to Boyd from Eckel dated	1/23/51
29.	1 copy letter to East from Eckel dated	12/29/50
30.	1 copy letter to Boyd from Eckel dated	1/23/51
31.	1 copy letter to East from Eckel dated	12/30/50
32.	1 copy letter to Tully from Eckel dated	1/18/51
33.	3 copies Mill layout (x-y-Z)	
34.	1 copy Geological map	
35.	1 copy Geological map of uranium	
36.	1 copy map of Arizona	
37.	1 copy letter to East from Eckel dated	12/29/50
38.	1 copy Letter to Eckel from Tully dated	10/11/50
39.	1 copy list of mining equipment	
40.	1 copy list of mining equipment prices	

8/24/51

Memorandum

To: Records and Reports Unit

Through: Director, Supply Division

From: Tungsten Branch

Subject: DMA-455X Tungsten
The Bonus Mining and Milling Company
Claude O. Eckel - Owner
% A. B. Taillard
180 North Church Street
Tuscon, Arizona

Conclusions:

It was found that no mineable ore reserves exist. The average assays of exposed mineralized sections show .38 tungsten. The horizontal extent of the veins is limited and was frequently interrupted along the strike. Two quartz veins 18" and 21" were visible. The field team report states, "There does not appear to be any likelihood of finding substantial quantities of such ore on the Bonus Property.

Recommendation:

The application is denied.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

Attachment

Approved:

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Field Team Region IV
Mr. Lemmon
Mr. Geehan
Files

Director, Supply Division

CHJacoby:ec
August 24, 1951

August 13, 1951

Air Mail

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region XV

Subject: DMA Docket 455, Claude O. Kohal, Bonus Tungsten Prospect, Yavapai County, Arizona

Enclosed are the brochure and original and two copies of the report on the above docket.

We concur with the examining team and recommend that the loan be denied.

J. R. East, Jr.

A. H. Koschmann

A. H. Koschmann

Enclosures

Mr. Herman H. Feldman
707 E. & C. Building
17th & Curtis Streets
Denver 2, Colorado

In reply please refer to
DMA 455 Tungsten

Dear Mr. Feldman:

This is in reply to your letter of August 13, 1951 concerning the status of the application of the Bonus Mining and Milling Co.

The application for a loan was denied on September 4, 1951, and the letter to that effect has gone to the Company under date of September 4, 1951.

Very truly yours,

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

GHHoldere:ll 9/10/51
CC: Files
Reports and Records Unit
Adm. Reading File
Mr. Holderer

OFFICE PHONE: ALPINE 1208

340

HERMAN H. FELDMAN
ATTORNEY AND COUNSELOR AT LAW
707 E. & C. BUILDING
17TH & CURTIS STREETS
DENVER 2, COLORADO

August 13, 1951

Administrator of
Defense Minerals
Administration,
Interior Building
Washington 25, D.C.

Dear Administrator:

We refer to DMA 455.

Our client, The Bonus Mining and Milling Co.,of Arizona, has requested us to contact you in connection with the expiration loan application which has been made in or with your office in regards to the tungston mine located near Congress, Arizona.

Mr. East in your office here in Denver has informed us that the report made by your field men at the above mine was forwarded to your office in Washington, D.C. on or about the 23rd day of July, 1951.

Would you please advise us as to the present status of our client's application for the referred to expiration loan.

Yours very truly,

Herman H. Feldman

Herman H. Feldman

HHF/vn

Had at this time, rejected as not after formal expiration date passed
H 8/17/51

224 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 14 1951

July 23, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: DMA Docket 455, Final Report, Claude O. Dukel, Bonus Tungsten Prospect, Yavapai County, Ariz.

The applicant requested a development loan of $25,000 of which, $17,000 was for the purchase of mining and milling equipment and the balance was for operating capital.

Mineralization at the prospect consists mainly of pockets of large crystals and aggregates of wolframite occuring erratically in narrow lenticular quartz veins occupying irregular fractures in granite.

Reported production has amounted to 600 pounds of sorted 65 percent WO_3, from an estimated 54 tons, giving an average unit content of 0.38 percent WO_3.

Due to the fact that there are not any minable reserves, and the applicant has not proposed an exploration loan, the examining engineer recommends denial of the loan, with which I concur.

The recommendation that no consideration should be given to an exploration program is subject to question, however, due to the current critical supplies of high grade wolframite concentrate for reduction to tungsten powder.

Paul T. Allaman

Paul T. Allaman

Division
1951
MINES
Colorado

MINING DIVISION
REGION IV

July 17, 1951

Memorandum

To : Paul I. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : Final Report, DMA Docket 455, Claude O. Eckel's Bonus Tungsten Prospect, Yavapai County, Ariz.

Enclosed are original and 7 copies of the above report by L. L. Farnham of the Bureau of Mines. This property was examined late in June when personnel of the Geological Survey were busy with other dockets, therefore no geological report is attached.

Claude O. Eckel now is serving a term in the State Penitentiary at Florence, Ariz. for murdering a man at Congress Junction about 3 years ago. Evidently a partnership has taken over the Bonus claim from Eckel, with Ernest Fernstrom of Tucson as the manager.

The report has my approval.

Walter R. Storms

CC P. T. Allsman (7)
C. A. Anderson
DMA-455
DF

WRStorms:frj

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-455, Claude O. Sokal's Sonora Tungsten Prospect

Yavapai County, Ariz.

L. L. Farnham, Mining Engineer
U. S. Bureau of Mines

July 1951

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By L. L. Farnham 1/

Early in 1951, Claude O. Eckel of Florence, Ariz., applied to the Defense Minerals Administration for a production loan of $25,000 with which to purchase equipment for mining and milling tungsten ore occurring on the Bonus claim. The Bonus consists of one unpatented lode mining claim situated in the Camp Wood area of southwestern Yavapai County, Ariz. The property was visited by the writer on June 27, 1951.

Worked intermittently on a small scale since 1941, the claim has produced a few hundred pounds of high-grade tungsten ore. Pockets of wolframite occur erratically in narrow, lenticular quartz veins occupying irregular fractures in granite. The indicated average value of the material formerly mined was less than 0.5 percent WO_3. This is considered to be below profitable milling grade.

No ore reserves are in sight and a mill is entirely unjustified.

Although other enriched spots of tungsten minerals may be found it appears unlikely, judging from the past work, that any worthwhile tonnage of tungsten ore will be found in the narrow, spotty veins on the Bonus claim.

It is recommended that the request for a production loan be denied and that no consideration be given for an exploration project.

1/ Mining Engineer, Bureau of Mines

CLAUDE O. ECKEL'S BONUS TUNGSTEN PROSPECT
YAVAPAI COUNTY, ARIZONA
DMA-455

Engineering Report

By L. L. Farnham
Mining Engineer
U. S. Bureau of Mines

July 1951

CLAUDE O. ECKEL'S BONUS TUNGSTEN PROSPECT
YAVAPAI COUNTY, ARIZONA
BHA-455

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INTRODUCTION

This report describes the results of an examination of the Bonus tungsten claim, made in connection with the loan application of Claude O. Eckel of Florence, Ariz., to the Defense Minerals Administration, DMA Docket No. 455. The writer visited the property on June 27, 1951.

The applicant requested a loan, totaling $25,000, to be used for the production of tungsten ore. Of this amount, $17,000 was to be used for the purpose of purchasing the necessary equipment for mining and milling 10 tons of ore daily, and $8,000 was for working capital.

Although there is some correspondence in the brochure indicating that this original production loan was changed in Washington to an exploration loan, no application for an exploration loan has been received as yet (July 13, 1951).

ACKNOWLEDGMENT

Acknowledgments are made to Ernest Fernstrom, representing the applicant, and to Robert Stark for the help they extended the writer during the visit to the property.

LOCATION AND PHYSICAL FEATURES

The Bonus mining claim is located about 18 miles southwest of Camp wood, Yavapai County, Ariz. in sections 13 and 18, T. 15 N., Ranges 7 and 8 W. Camp wood is some 41 miles northwest of

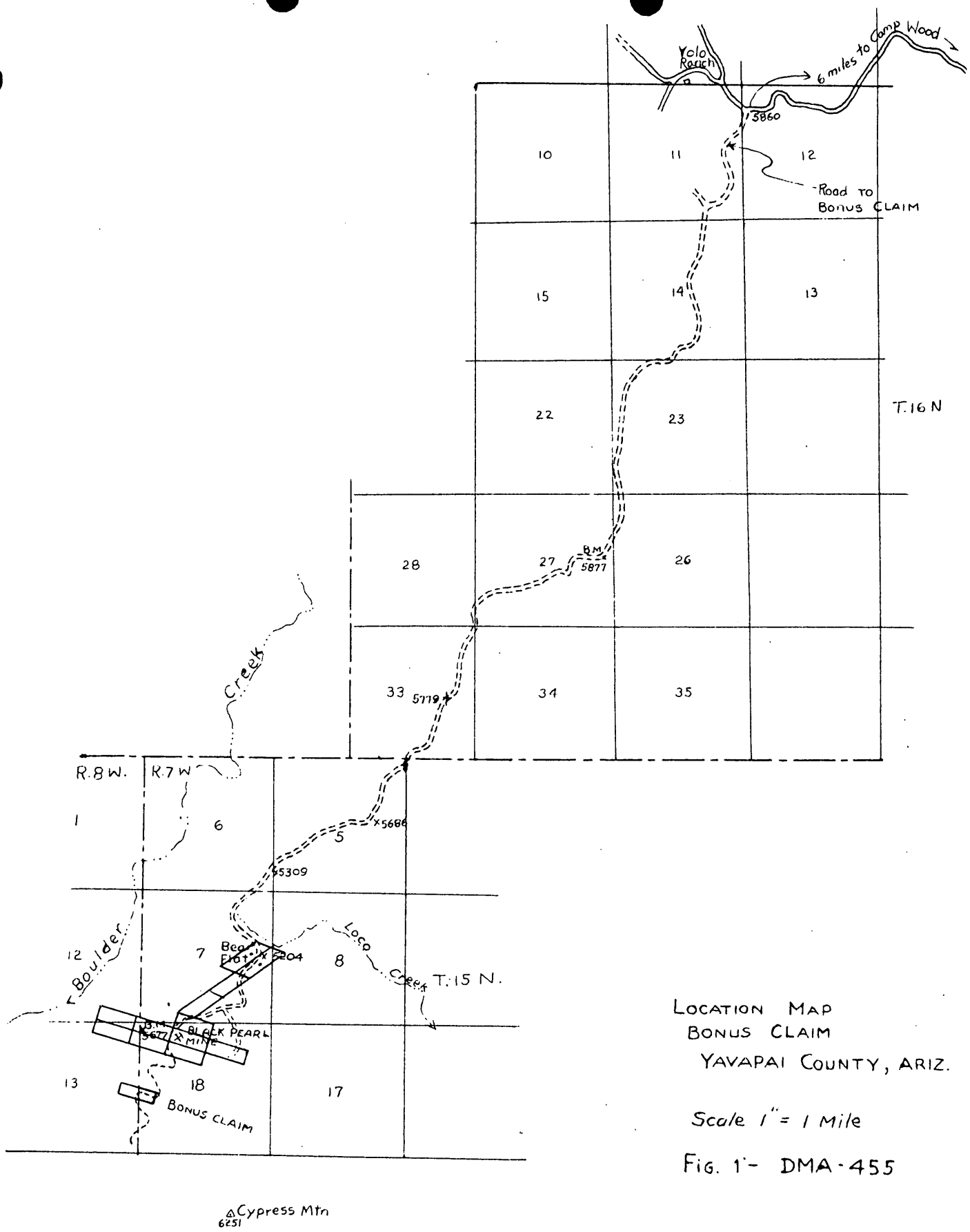
Prescott, Ariz. A side road, running southwest, leaves the main road about 6 miles west of Camp Wood. This side road is 11 miles long and ends at the Black Pearl mine. From there, the Bonus claim is reached over three-quarters of a mile of trail (Fig. 1). The last 10 miles of the road, over a malpais mesa, is in very poor condition and is impassable in wet weather.

The altitude at the Bonus claim is about 5,300 feet above sea level. The topography is moderately rough. Scrub cedars and junipers cover much of the area.

HISTORY AND PRODUCTION

The Bonus mining claim was located by the applicant in 1941. Since that time considerable surface prospecting for pockets of wolframite has been conducted intermittently.

No actual record of the production from this claim is available. The applicant states in the loan application that he produced 6,600 pounds of high-grade tungsten ore from the Bonus claim. This statement could not be verified. Ernest Fernstrom of Tucson, who purchased the ore from Eckel, says that the Bonus prospect produced about 600 pounds of sorted ore, averaging about 65 percent WO_3. Robert Stark, who owns claims in the vicinity and has worked with Eckel on other prospects in the area, told the writer that he understood that about 600 pounds of ore was found on the Bonus claim. This amount seems more in accord with the limited workings than the applicant's statement that the production was 6,600 pounds.



LOCATION MAP
BONUS CLAIM
YAVAPAI COUNTY, ARIZ.

Scale 1" = 1 Mile

FIG. 1 - DMA-455

OWNERSHIP AND EXTENT

The Bonus prospect consists of one unpatented lode mining claim, recorded in the name of Claude O. Eckel.

Since the filing of the loan application a partnership, known as the Bonus Mining and Milling Co., has been formed to operate the property. Maynard Froemke of California heads the organization and Ernest Fernstrom of Tucson, Ariz., has been appointed general manager. Whether or not a legal transfer of ownership has been made between Eckel and the Bonus Mining & Co. is not known.

DESCRIPTION OF THE DEPOSITS

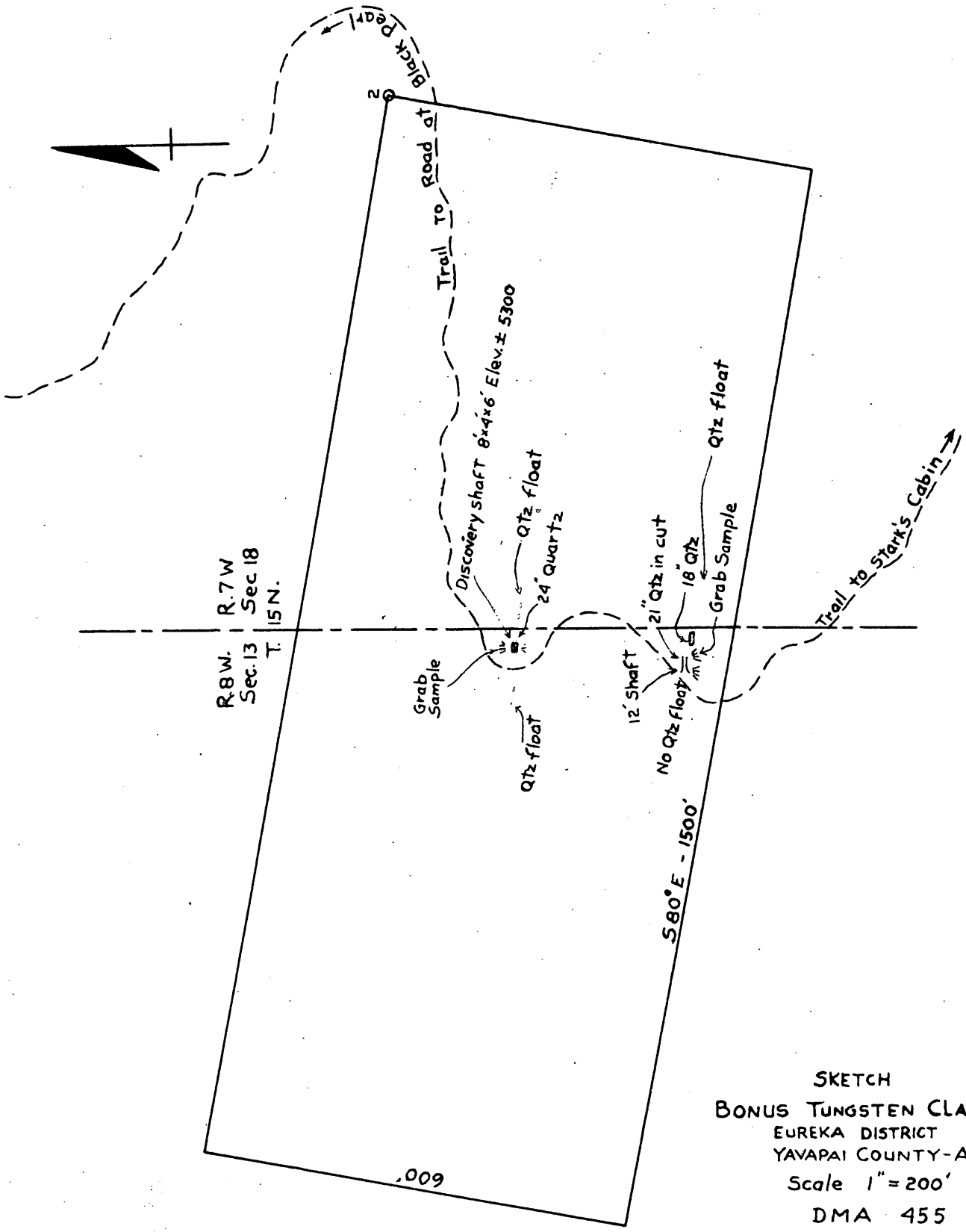
Tungsten-bearing quartz veins, occupying fractures in the granite, are quite common in the area surrounding the Bonus claim. The neighboring Black Peark mine, with a recorded production of some 62,000 pounds of 70 percent WO_3, is the most notable example. There a persistent quartz vein about 4 feet wide has been productive for nearly 2,000 feet along the outcrop.

On the Bonus claim, wolframite has been found in two parallel, narrow, lenticular quartz veins, trending about N. 80° W. and dipping steeply southward. Although these veins were not fully exposed by the meager prospect openings, their horizontal extent appeared limited and was frequently interrupted along the strike.

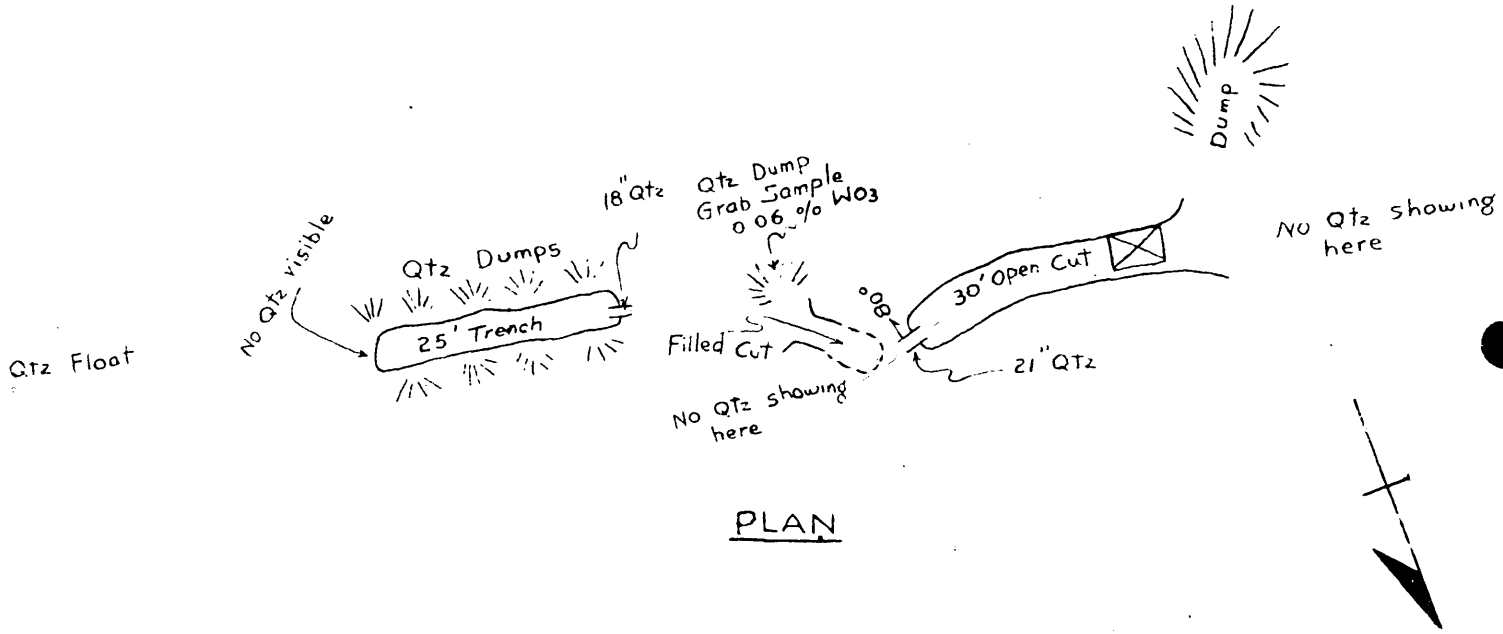
Little could be observed of their vertical extent. However, it is presumed they will display the same lenticular character down the dip as they do along the strike.

In the discovery pit (3 by 6 by 8 ft.) near the center of the claim, a quartz vein about 2 feet wide was exposed. Quartz float from this vein was traceable at intervals for only about 25 feet east and 50 feet west of the pit (fig. 2). Several small crystals of wolframite were seen in a few pieces of the honeycombed quartz that was piled near the side of the opening. A grab sample taken of the fine quartz on the dump assayed 0.08 percent WO_3. This work evidently was done for claim location purposes and produced very little, if any, tungsten.

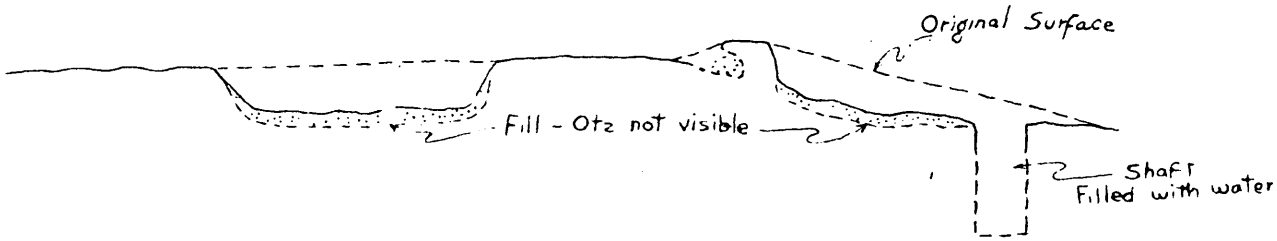
About 250 feet south of the discovery pit, other quartz veins outcropped. It was from this area that the production came. There, shallow workings had, at intervals, followed the outcrop for about 85 feet (fig. 3). This work consisted of a 12-foot prospect shaft sunk on the west end of a 30-foot open cut. A few feet east of the easterly face of this open cut a small test pit, now caved, had encountered quartz. Small crystals of wolframite were visible in the quartz coming from this pit. A grab sample of this material assayed 0.06 percent WO_3. About 20 feet east of the pit and offset to the south, a trench approximately 25 feet long and 6 feet deep had been excavated along the course of a quartz vein. The bottoms of both this trench and the 30-foot open cut were covered with detrital material and the 12-foot shaft was filled with rain water.



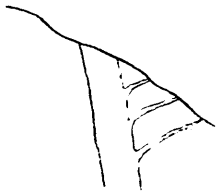
SKETCH
BONUS TUNGSTEN CLAIM
EUREKA DISTRICT
YAVAPAI COUNTY-ARIZ.
Scale 1" = 200'
DMA 455
FIG.-2



PLAN



LONGITUDINAL SECTION



X-SECTION
EAST FACE OPEN CUT
1" = 10'

SKETCH OF
WORKINGS ON SOUTH VEIN
BONUS CLAIM
Scale - 1" = 20'
FIG. 3 - DMA - 455

Thus it was only possible to see the veins in place in but two small areas. Quartz with a width of 21 inches was exposed in the upper half of the east face of the open cut. In the west end near the bottom of the trench, a quartz vein about 18 inches wide was visible. These two quartz exposures did not appear to line up, thus suggesting an echelon lense pattern to the vein system. No quartz was found west of the open cut. Some quartz float was traceable at intervals for about 100 feet east of the trench.

In the east face of the open cut, three nearly flat veinlets of quartz and pegmatite emerged from the hanging wall of the main vein. These spur veins were wedge-shaped in cross-section, and were several inches thick at the intersection with the main vein but thinned to mere fractures in the granite a few feet from the hanging wall of the main quartz. (See cross-section sketch, Fig.3).

It appears that these flat spur veinlets, near the intersection with the main quartz body, were the chief source of the tungsten ore that came from the Bonus claim. The applicant refers to them as "shingles" in the application.

The wolframite for the most part occurred as large crystals and aggregates so that a high-grade produce resulted from sorting and cobbing the ore. The quartz that was mined during the search for these enriched pockets was evidently left on the dump of the various openings. A few small crystals of tungsten minerals were occasionally visible but judging from the samples taken of this quartz, it contains less than 0.10 percent WO_3.

MINEABLE ORE RESERVES

There are no mineable ore reserves on the Bonus claim.

Based on the evident dimensions of all the openings on the south veins and assuming the average width of the quartz to have been 18 inches, the total vein material removed in these workings amounted to about 54 tons. If the production coming from these workings amounted to 600 pounds of sorted ore, averaging 65 percent WO_3, as reported by Fernstrom, then the average value of the vein material mined was 0.38 percent WO_3.

PRESENT STATUS

There is no mining, milling or other equipment or facilities upon the property.

The exploration work on the claim has been described under the description of the deposits and is shown in detail on Fig. 3.

PROJECT PROPOSALS

The applicant requests a straight loan of $25,000, of which $17,000 is to be used to buy machinery and equipment for mining and milling 10 tons of ore per shift. The balance of $8,000 is for working capital.

No specific proposals for exploration or development are made in the application.

It would be necessary to construct about three quarters of a mile of road, establish a camp, and purchase all the necessary mine equipment before any serious exploration for ore could be attempted. Thus $25,000 would probably prove inadequate for the development of the mine, to say nothing about the cost of a mill.

It appears unlikely that water could be readily obtained on the property. The nearest known source of domestic water is from a shallow well on Bear Flat, some 2 miles from the claim.

Labor would be difficult to obtain in this isolated locality.

MINING METHODS AND COSTS

Mining by cut-and-fill would be applicable to the type of narrow quartz veins occurring on the Bonus claim. Exploration, development, and stoping costs would probably amount to about $20 a ton of ore.

MILLING METHODS AND COSTS

It would appear that the tungsten minerals in this ore could be concentrated by simple gravity methods. Nothing is known as to the recoveries that might be expected nor the grade of the resulting concentrates. Costs of milling on a small scale would probably be at least $5 a ton. Transportation and marketing would increase this cost.

SUMMARY

The total operating costs would probably exceed $25 a ton.

The indicated content of the material formerly mined was 0.38 percent WO_3. With a realized price of $60 a unit of contained WO_3 and assuming an 80 percent mill recovery of the tungsten in the ore, the gross value of this class of material at the mine would be $18.24 a ton. Thus, it would require an ore of at least double this value to justify operations. There does not appear to be any likelihood of finding substantial quantities of such ore on the Bonus property.

CONCLUSIONS AND RECOMMENDATIONS.

Several shallow prospect openings on the Bonus claim have exposed two narrow, lenticular, tungsten-bearing quartz veins occupying disconnected fractures in the granite. Their horizontal extent appears limited and nothing is known of their behavior in depth. No authentic records of the production exist but conservative estimates place it at about 600 pounds of 65 percent WO_3. On the basis of this production, calculations of the volume of openings show that the average content of the quartz mined was 0.38 WO_3. This is considered to be below a profitable milling grade.

No mineable ore reserves exist and a mill is entirely unjustified.

Although other small pockets of wolframite may be found, it appears very unlikely that any substantial production of tungsten would result from further operations. Therefore, it is recommended that the request for a production loan of $25,000 be denied, and that no further consideration be given an exploration program.

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

W. P. MARSHALL, PRESIDENT

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=Int'l Letter Telegram

VLT=Int'l Victory Ltr.

(29)

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1951 JUN 22 AM 8 31

WP011 NL PD=LOSANGELES CALIF JUN 21=

TOM LYON=

DEFENSE MINERALS ADMINISTRATION DEPT INTERIOR=

Dma-455X
Referred to Bradley
7/4/51

WILL TELEPHONE YOU TEN AM FRIDAY 23RD. YOUR TIME STOP EXTREMELY ANXIOUS TO KNOW PRESENT STATUS OF OUR EXPLORATION LOAN PENDING STOP HAVE MINERS WORKING ON CLAIM AND WISH TO KNOW IF MATCHING AID WILL BE FORTHCOMING BEFORE JULY FIRST 1951 OTHERWISE WILL MAKE ARRANGEMENTS FOR PRIVATE FINANCE FOR BONUS MINING AND MILLING COMPANY=

CLAUDE O ECKEL=

Called 6-22-51

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 22 1951
11:28 AM
LANDON F. STROBEL
Executive Secretary

BUREAU OF MINES
WASHINGTON, D.C.
1951 JUN 22 AM 10 09

CLASS OF SERVICE

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WESTERN UNION

W. P. MARSHALL, PRESIDENT

1201

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Dma 455x

1951 JUN 21 AM 3 51

PA164 LA005

L.LLA742 LONG NL PD=LOSANGELES CALIF 20=

:TOM LYON=

DMA DEPT OF INTERIOR WASHDC=

:EITHER MY PARTNER M C FROEMKE OR MYSELF WILL BE IN DENVER THURSDAY OR FRIDAY THIS WEEK WE SENT OUR REPRESENTATIVE JACK MCNICHOLS TO DENVER TO INQUIRE ABOUT PROGRESS EXPLORATION CONTRACT LOAN (MATCHING) WE FILED FOR BONUS MINING AND MILLING CO E FERNSTROM OF TUCSON IS GENERAL MANAGER OF OUR COMPANY STOP OUR MEN ARE WORKING ON BONUS CLAIM TAKING OUT TUNGSTON WHICH IS HIGH GRADE NOW WILL

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

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W. P. MARSHALL, PRESIDENT

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1951 JUN 21 AM 3 51

CONSTRUCT 25 TON MILL SHORTLY IMPOSSIBLE TO OBTAIN ANY PERTINENT INFORMATION FROM MR EAST REGARDING PRESENT STATUS EXPLORATION CONTRACT I TESTIFIED AT HEARING PHOENIX ARIZONA CONDUCTED BY WALTER BARING REPRESENTATIVE OF NEVADA THAT I THOUGHT DR BOYD HUNDRED PERCENT IN HIS EFFORTS TO GET HELP TO MINERS IN FACT I WROTE DR BOYD TO THAT EFFECT PLEASE WIRE MR EAST TOMORROW THIS EFFECT THAT EITHER OUR APPLICATION HAS BEEN APPROVED OR DISAPPROVED OR PRESENT STATUS SO THAT WE MAY KNOW WHERE WE STAND MY NEIGHBOR SENATOR EARNEST MC FARLAND WILL

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS

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VLT=Int'l Victory Ltr.®

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

PAID LL AM 3

1951 JUN 21 AM 3 51

CONTACT YOU IF WE CANNOT GET REASONABLE ASSURANCE THAT OUR MINING PLAN IS MOVING FORWARD YOUR LETTER INDICATES YOU HAVE FIRM GRASP OF SITUATION WIRE ME COLLECT BROWN PALACE HOTEL DENVER=

CLAUDE O ECKEL=..

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

REGIONAL DIRECTOR

Dma-455X

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

May 1, 1951

Memorandum

To: Landon Strobel, Executive Secretary, Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: Bonus Mining and Milling Co., Claude O. Eckel

We are enclosing four copies of form MF 103 and four copies of MF 100, submitted by Mr. Claude O. Eckel, owner, The Bonus Mining and Milling Co.

In his transmittal letter, Mr. Eckel advised that his application has been given docket number DMA 455.

J. H. East, Jr.

Enclosures

/cl
cc-DMA files

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma-455 X

Date received 5/4/51

Participation

THE BONUS MINING AND MILLING CO.
CLAUDE O. ECKEL, OWNER
c/o A. B. TAILLARD
180 NORTHCHURCH STREET
TUCSON, ARIZONA

Name and address of applicant

Date April 25, 1951

FILL IN THIS BLOCK

Date of application April 4, 1951

Estimated cost $20,000.00

Mineral or metal Principally Tungsten

Percentage of Government participation $15,000.00

Location of mine TWp16N-Range 5W
Yavapai County, Arizona

Date of filing MF-100 April 4, 1951

DMA Docket Number, if available 455 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

    NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*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.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

THE BONUS MINING AND MILLING CO.
(Name of company)

By Claude O. Eckel
(Signature of authorized official)

April 25, 1951
(Date)

CLAUDE O. ECKEL, OWNER
(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

The Bonus Mining and Milling Co.
Claude C. Eckel, Owner
c/o A. B. Taillard
180 North Church Street
Tucson, Arizona

APPLICATION FOR AID FOR AN EXPLORATION PROJECT
PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE
PRODUCTION ACT OF 1950
FORM MF-103

THE APPLICANT

1. Answered on Form MF-100 - Previously filed.

2. Answered on Form MF-100, and accompanying papers.

3. Answered on Form MF-100, and accompanying papers.

4. Answered onForm MF-100, and accompanying papers.

5. Answered on Form MF-100, and accompanying papers.

6. There are no claims, liens, or encumbrances against the property.

7. Applicant is owner of the property, therefore clause as to lessee and leases not applicable.

8. Inasmuch as Company is a projected operation, there are no books of record as yet, but assets will consist of Bonus Claim when transferred to Company, as well as $5,000 cash, the applicant's share of participation.

9. $5,000, as stated above. It is sufficient to comply with applicant's share of cost of project as detailed in Question 23 of this application form, and also in accordance with regulations on Government participation (75-25 for tungsten).

THE PROPERTY

10. (a) Description of real property that will be involved in this project, including any existing mine and operating property, will be found in Form MF-100 and accompany papers and sketch previously submitted.

(b) Same as (a) above.

11. Answered on Form MF-100, and accompanying papers.

12. Answered on Form MF-100, and accompanying papers.

The Bonus Mining and Milling Co.
Claude J. Eckel, Owner
c/o A. B. Taillard
180 North Church Street
Tucson, Arizona

THE PROPERTY (Continued)

13. Answered on Form MF-100, and accompanying papers.

14. Answered on Form MF-100, and accompanying papers.

15. Fully covered in Form MF-100, and accompanying papers, as well as application on File in DMA - Docket 455.

16. Fully covered in Form MF-100, and accompanying papers, as well as application on File in DMA - Docket 455.

17. Answered on Form MF-100, and accompanying papers.

18. Answered on Form MF-100, and accompanying papers.

19. None.

THE EXPLORATION

20. Principally Tungsten (WO_3), but other minerals and types of deposits are fully detailed in Form MF-100 and accompanying papers.

21. An attachment to Form MF-100, gave in detail the work necessary to get into immediate production. Mining operations can be started within 30 days from receipt of proceeds of loan.

22. See maps and sketches attached to Form MF-100, as well as U.S. Geological Survey of property in 1947, reserving for strategic minerals.

THE REQUIREMENTS AND COSTS

23.(a) Labor -
-(3 miners per shift - 2 shifts
16 men at $10.00 per day ..... $ 60.00
1 mill man at $15.00 per day 15.00
(b) 1 foreman @ $15.00 per day 15.00
1 Timekeeper & Bookkeeper - per day.. 10.00

TOTAL $100.00 per day
or
$3,000 per month

Bonus Mining & Milling Co.
Claude O. Eckel, Owner

23. (c) No existing facilities

(d) Construct Mill Building	$1500.00	
Construct Bunk House	750.00	
Construct Cook House	750.00	
(Mine Owner is A-1 Carpenter)	3000.00	$3,000.00
(e) Portable Compressor (new)	$3500.00	
2 Water Pressure Tanks	100.00	
3 Drill Machines (Stopper-Jack Hammer - Drifter	750.00	
1 Wood Cook Range	100.00	
1 Mine Car	50.00	
Rails for car	50.00	
2 ea. 50' double hose w/connection	50.00	
1 Bit Grinder & Engine	350.00	
200' 2" pipe w/connections.....	75.00	
½ mile 2" pipe w/connections	720.00	
Misc. Tools to maintain and operate pipe line and equipment	75.00	
Drills 36 for each 3' to 8'	100.00	
800 lbs. dynamite - 30%	135.00	
200 lbs. dynamite - 60%	50.00	
1 case caps	270.00	
1 case fuses	50.00	
1 crusher for mill	750.00	
Belts for crusher and power takeoff	200.00	
1 table for mill	250.00	
Miscellaneous lumber	100.00	
Misc. Office Equipt. & Supplies ..	250.00	
Diesel Engine for mill 40 h.p. (used)	1200.00	
2½ ton truck (used)	2500.00	
1 small jeep (used).....	1000.00	
	$12,675.00	$12,675.00

(f) No rental
(g) None

(h) 6 carbide lamps @ 8.25 ea.....	49.50	
6 cap lights @ 3.00 ea	18.00	
1 Jack Bar for Drifter	50.00	
1 ea. timber saw & axe	15.00	
1 keg spikes	40.00	
Misc. wrenches, dies, cutters, etc.	50.00	
Picks - Shovels - Sledges	27.50	
Starter & Bits	50.00	
Forge	25.00	
Miscellaneous groceries.....	450.00	
Misc. equipt. & supplies	225.00	
	$1,000.00	$ 1,000.00

(i) Provided for above.

Bonus Mining & Milling Co.
Claude O. Eckel, Owner

24. Mining operations can be started approximately 30 days after receipt of proceeds of loan, and operating expenses after a period of thirty days can be deducted from the net upon sale of ore concentrates, and conditions of Section 13 and 14 of DMA appendix AO-5 to be complied with.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-455X

Date received 5/4/51

[illegible]

Name and address of applicant

Date April 4, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

BONUS MINING AND MILL G CO.
(Name of company)
CLAUDE O. ECKEL, OWNER

By _____
(Signature of authorized official)
CLAUDE O. ECKEL, OWNER

APRIL 4, 1951
(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

Bonus Mining and Milling Co.
Claude J. Eckel, Owner
c/o A. B. Taillard
180 North Church Street
Tucson, Arizona

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

FORM MF-100

1. Materials produced:

(a) What are the chief mine, mill, or smelter products?

Tungsten, WO_3. To be milled on property.
Carnitite. (Method to be governed by government regulations)

(b) What are the byproducts, if any?

Fluorspar.
Tantalum
Amethyst
Chrome

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

2. Name and type of mine, mill, smelter, refinery, pit, quarry, drilling operation. Include old names of property, if any. Show extent of workings.

THE BONUS MINE

To mine Tungsten, Garnitite, Fluorspar, Tantalum, Amethyst, and Chrome.

Proposed 10 ton mill for Tungsten Concentrate.

No smelter.

No refinery.

Pits at A - B - D - E *F - (See Sketch attached)

See K on Sketch for Quarries

Drilling Operations:- WORKINGS:

30' x 30' x 10' - at "N" on Sketch attached.

Also see K on Sketch - Estimated 6' x 6' x 150' tunnell.

Tunnels and exploration holes approximately 1000 lineal feet

½ mile 2" pipe to bring water for operations. No indications of subterranean water to be pumped. There is a small spring on claim for drinking purposes.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

3. (a) Distance and direction from nearest town and shipping point:

Hillside - Approximately 40 miles S.E. (Nearest R.R.)
Prescott - 62 miles S.E.
Seligman - 63 Miles N.E.
Camp Wood - 9 miles N by E (Nearest P.O. & Hiway)

The Bonus Mine will require 600 yards road (bulldozer) to enable trucks to reach Camp Wood Hiway.

(b) Mining District

Center of Mining Area - Is in the proximity of well known lodes or of individual lodes:
Black Pearl Mine - North of Claim, one claim from Bonus. (This is a large producer of tungsten)
Double Jack Mine S.E. of claim - one claim from Bonus (Also a tungsten producer)
Blue Steel Claims (Tungsten)

(c) Township, Section and Range

TWP 16 N - RANGE 5W - Section ~~23/24~~ 26 - Yavapai County, Arizona

(d) County and State

Yavapai County, Arizona

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

4. (a) State whether or not property is now in operation, and if in operation, by whom operated.

The property is not in operation at present. How ver, in 1949 6600 lbs. of WO3 was hand-mined by owner and crew.

(B) Are you operating this property as Owner?

Yes - Claude O. Eckel, Owner

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

5. Number of years in production -

This mine has been in operation periodically for the past 10 years (Hand-mining)

Production will begin 90 days or less from date of receipt of 75-25 loan (Tungsten)

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

6. Experience of Operators:

Mr. Claude O. Eckel, Owner, is a man of vast experience in mining, both from the prospector's view and from the operator's view. Most of Mr. Eckel's experience has been on the practical side. He has a liberal knowledge of mining operations gathered over a period of some 40 years or more; inasmuch as he has devoted his life to mining and its associated interests. He has a very high reputation among the mining fraternity, and is known for his technical knowledge, prospector's accumen, and ability to mine at a profit. These statements will be substantiated by members of the Arizona Mineral REsources Board and of the Small Mine Operators Union of Arizona, of which Mr. Charles F. Willis is State Secretary. Mr. Charles H. Dunning, Director, Arizona Dept. of Resources will also vouch for Mr. Eckel's ability and integrity. He owns by himself, and in partnership, numerous claims. He also owns several properties and has been a citizen and taxpayer of Arizona for 35 years. Mr. Eckel has also associated with him an attorney, a mining engineer, an accountant, and mining foreman, names of which will be submitted upon request.

Bonus Mining and Milling Co.
Claude J. Eckel, Owner

7. History:

(a) While prospecting in 1934, found Bonus Mine, then made an exhaustive survey to determine the amount of potential ore insofar as possible, on this claim. Found many ore bodies on and below the surface, and deeper than previous workings. (Old workings - origin unknown) By hand mining and assessment work several thousand pounds of WO3 have been removed and sold, all of which makes the owner feel that the BONUS CLAIM will turn out to be an exceptional producer. Findings on Bonus have been substantiated by the U. S. Geographical Survey of the Dept. of Interior, Bureau of Mines, a few years ago. The Dept. have reserved the Bonus for strategic minerals, and monument markers set up around the claim by the Government Engineers. The ore assays between 68 and 72% in some instances. Assay work done by University of Arizona Mineral Dept. In workings new and old, found ore bodies both on and under the surface and deeper than previous old workings. There has been considerable assesment work done since the discovery in 1934 from 34 to 51 inclusive. The property, as stated before, shows tungsten, carnitite, chrome, fluorspar, amethyst, and tantalum. Have taken the following amounts of ore from the property since discover -:

Tungsten -	6060 lbs.
Tantalum	600 lbs.
Chrome	60 lbs.
Amethyst	100 lbs.

(b) Surrounding properties are owned by applicant, Mr. Eckel. Primary assesment work has been done on these claims. See Sketch attached for location.

(c) U.S.G.S. and Bureau of Mines - DEPT OF INTERIOR has reserved for strategic minerals

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

8. None.

BONUS MINING AND MILLING CO.
CLAUDE O. ECKEL, OWNER

Bonus Mining and Milling Co
Claude J. Eckel, Owner

9. NOT APPLICABLE.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

10. Production:

1. Quantity of product mined and quarried:

6060 lbs. Tungsten WO3
600 lbs. Tantalum
50 lbs. Chrome
100 lbs. Amethyst

2. Quantity of product processed:

Same as 1.

3. Quantity and gradeof product sold or shipped.

Same as 1.

Bonus Mining and Milling Co.
Claude O. Ackel, Owner

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 average monthly rate of production has ever been made due to the fact that most of the WO3 taken from the mine has been by hand-mining. With the funds received from the requested loan, we will be able to purchase necessary equipment and machinery to conduct a real mining operation based upon the above loan funds being available, our estimate of average monthly rate of production will be 400 short tons WO3 Tungsten.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

12. Ore or mineral reserves:

(a) See U. S. Geographical Survey Report (Docket 455)

(b) See sketch attached. Deposit is mining and quarry. See sketch for location and size. See Geologist's Reports Docket 455 filed with DMA, Original 12 page application.

(c) Not applicable

Bonus Mining and Milling Co.
Claude C. Eckel, Owner

13. ACCESS ROADS:

Refer to Page 3 this application - Question 3.

Also see supplementary memorandum enclosed.

Bonus Mining and Milling Co.
Claude J. Eckel, Owner

14. Water Supply:

See Question 2 Page 2 this application. Water will be no problem to the Bonus.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

15. Power:

Power to be manufactured by diesel 110 Volts 220 Volts on claim. This has already been arranged for, to be paid out of loan proceeds.

Bonus Mining and Milling Co.
Claude O. Bokel, Owner

16. Labor:

Six miners, three on a shift, two shifts, - one foreman.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

17. Equipment and Facilities:

There is one building on the property, in serviceable condition, housing tools, tungsten bin, and miner's hand tools. Equipment arranged for and ready for delivery consists of compressor, water pressure tank, 2 drill machines, 1 stopper, jackhammer, drifter, hose - water and air with connections, dynamite and other miscellaneous tools to maintain and operate equipment and pipe line. See attached supplementary memo.

Bonus Mining and Milling Co.
Claude C. Eckel, Owner

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

None.

I might add that all necessary equipment and machinery are on order and we can be in immediate production 60 days after matching funds from this loan (75-25 - tungsten) are received.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma-455 X

Date received 5/4/51

Participation

THE BONUS MINING AND MILLING CO.
CLAUDE O. LOCKE, OWNER
c/o A. B. TAILLARD
180 NORTHCHURCH STREET
TUCSON, ARIZONA

Name and address of applicant

Date April 25, 1951

FILL IN THIS BLOCK

Date of application April 4, 1951

Estimated cost $20,000.00

Mineral or metal Principally Tungsten

Percentage of Government participation $15,000.00

Location of mine TWP16N-Range 5W
Yavapai County, Arizona

Date of filing MF-100 April 4, 1951

DMA Docket Number, if available 455 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

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

NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*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.

*17. Production:

(*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

THE BONUS MINING AND MILLING CO. — By Claude O. Eckel
(Name of company) — (Signature of authorized official)

April 25, 1951 — CLAUDE O. ECKEL, OWNER
(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.

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

The Bonus Mining and Milling Co.
Claude C. Eckel, Owner
c/o A. B. Taillard
180 North Church Street
Tucson, Arizona

APPLICATION FOR AID FOR AN EXPLORATION PROJECT
PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE
PRODUCTION ACT OF 1950
FORM MF-103

THE APPLICANT

1. Answered on Form MF-100 - Previously filed.

2. Answered on Form MF-100, and accompanying papers.

3. Answered on Form MF-100, and accompanying papers.

4. Answered on Form MF-100, and accompanying papers.

5. Answered on Form MF-100, and accompanying papers.

6. There are no claims, liens, or encumbrances against the property.

7. Applicant is owner of the property, therefore clause as to lessee and leases not applicable.

8. Inasmuch as Company is a projected operation, there are no books of record as yet, but assets will consist of Bonus Claim when transferred to Company, as well as $5,000 cash, the applicant's share of participation.

9. $5,000, as stated above. It is sufficient to comply with applicant's share of cost of project as detailed in Question 23 of this application form, and also in accordance with regulations on Government participation (75-25 for tungsten).

THE PROPERTY

10. (a) Description of real property that will be involved in this project, including any existing line and operating property, will be found in Form MF-100 and accompany papers and sketch previously submitted.

(b) Same as (a) above.

11. Answered on Form MF-100, and accompanying papers.

12. Answered on Form MF-100, and accompanying papers.

The Bonus Mining and Milling Co.
Claude J. Eckel, Owner
c/o A. B. Baillard
180 North Church Street
Tucson, Arizona

THE PROPERTY (Continued)

13. Answered on Form MF-100, and accompanying papers.

14. Answered on Form MF-100, and accompanying papers.

15. Fully covered in Form MF-100, and accompanying papers, as well as application on File in DMA - Docket 455.

16. Fully covered in Form MF-100, and accompanying papers, as well as application on File in DMA - Docket 455.

17. Answered on Form MF-100, and accompanying papers.

18. Answered on Form MF-100, and accompanying papers.

19. None.

THE EXPLORATION

20. Principally Tungsten (WO3), but other minerals and types of deposits are fully detailed in Form MF-100 and accompanying papers.

21. An attachment to Form MF-100, gave in detail the work necessary to get into immediate production. Mining operations can be started within 30 days from receipt of proceeds of loan.

22. See maps and sketches attached to Form MF-100, as well as U.S. Geological Survey of property in 1947, reserving for strategic minerals.

THE REQUIREMENTS AND COSTS

23. (a) Labor -
-(3 miners per shift - 2 shifts
6 men at $10.00 per day ..... $ 60.00
1 mill man at $15.00 per day 15.00
(b) 1 foreman - $15.00 per day 15.00
1 Timekeeper & Bookkeeper - per day.. 10.00

TOTAL $100.00 per day
or
$3,000 per month

Bonus Mining & Milling Co.
Claude J. Eckel, Owner

23. (c) No existing facilities

(d) Construct Mill Building	$1500.00	
Construct Bunk House	750.00	
Construct Cook House	750.00	
(Mine Owner is a-1 Carpenter)	3000.00	$3,000.00
(e) Portable Compressor (new)	$3500.00	
2 Water Pressure Tanks	100.00	
3 Drill Machines (Stopper-Jack Hammer - Drifter	750.00	
1 wood Cook Range	100.00	
1 Mine Car	50.00	
Rails for car	50.00	
2 ea. 50' double hose w/connection	50.00	
1 Bit Grinder & Engine	350.00	
200' 2" pipe w/connections.....	75.00	
½ mile 2" pipe w/connections	720.00	
Misc. Tools to maintain and operate pipe line and equipment	75.00	
Drills 36 for each 3' to 8'	100.00	
800 lbs. dynamite - 80%	125.00	
200 lbs. dynamite - 60%	50.00	
1 case caps	270.00	
1 case fuses	50.00	
1 crusher for mill	750.00	
Belts for crusher and power takeoff	200.00	
1 table for mill	250.00	
Miscellaneous lumber	100.00	
Misc. Office Equipt. & Supplies ..	250.00	
Diesel Engine for mill 40 h.p. (used)	1200.00	
2½ ton truck (used)	2500.00	
1 small jeep (used).....	1000.00	
	$12,675.00	$12,675.00
(f) No rental		
(g) None		
(h) 6 carbide lamps @ 8.25 ea.....	49.50	
6 cap lights @ 3.00 ea	18.00	
1 Jack Bar for Drifter	50.00	
1 ea. timber saw & axe	15.00	
1 keg spikes	40.00	
Misc. wrenches, dies, cutters, etc.	50.00	
Picks - Shovels - Sledges	27.50	
Starter & Bits	50.00	
Forge	25.00	
Miscellaneous groceries.....	450.00	
Misc. equipt. & supplies	225.00	
	$1,000.00	$ 1,000.00

(i) Provided for above.

Bonus Mining & Milling Co.
Claude O. Eckel, Owner

24. Mining operations can be started approximately 30 days after receipt of proceeds of loan, and operating expenses after a period of thirty days can be deducted from the net upon sale of ore concentrates, and conditions of Section 13 and 14 of DMA appendix 40-5 to be complied with.

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-455X

Date received 5/4/51

BONUS MINING AND MILLING CO.
CARLOS O. [illegible], OWNER
180 NORTH CHURCH STREET
TUCSON, ARIZONA

[illegible]

Name and address of applicant

Date APRIL 4, 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

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

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

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

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

If more lines are needed continue on separate sheet.

9. Capital Stock Issues:

For Corporate Applicants

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

*Indicate period covered.

10. Production:

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

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

12. Ore or Mineral Reserves:

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

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

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

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

TOTAL ORE OR MINERAL RESERVES

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

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

BONUS MINING CO.
(Name of company)

By Claude O. Eckel
(Signature of authorized official)

CLAUDE O. ECKEL, OWNER
(Title)

APRIL 4, 1951
(Date)

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

Bonus Mining and Milling Co.
Claude O. Eckel, Owner
c/o A. B. Taillard
180 North Church Street
Tucson, Arizona

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

FORM MF-100

1. Materials produced:

(a) What are the chief mine, mill, or smelter products?

Tungsten, WO_3. To be milled on property.
CARnitite. (Method to be governed by government regulations)

(b) What are the byproducts, if any?

Fluorspar.
Tantalum
Amethyst
Chrome

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

2. Name and type of mine, mill, smelter, refinery, pit, quarry, drilling operation. Include old names of property, if any. Show extent of workings.

THE BONUS MINE

To mine Tungsten, Garnitite, Fluorspar, Tantalum, Amethyst, and Chrome.

Proposed 10 ton mill for Tungsten Concentrate.

No smelter.

No refinery.

Pits at A - B - D - E *F - (See Sketch attached)

See K on Sketch for Quarries

Drilling Operations:- WORKINGS:

30' x 30' x 10' - at "N" on Sketch attached.

Also see K on Sketch - Estimated 6' x 6' x 150' tunnell.

Tunnels and exploration holes approxi ately 1000 lineal feet

½ mile 2" pipe to bring water for operations. No indications of subterranean water to be pumped. There is a small spring on claim for drinking purposes.

Bonus Mining and Milligg Co.
Claude O. Eckel, Owner

3. (a) Distance and direction from nearest town and shipping point:

Hillside - Approximately 40 miles S.E. (Nearest R.R.)
Prescott - 65 miles S.E.
Seligman - 63 Miles N.E.
Camp Wood - 9 miles N by E (Nearest P.O. & Hiway)

The Bonus Mine will require 600 yards road (bulldozer) to enable trucks to reach CAmp Wood Hiway.

(b) Mining District

Center of Mining Area - Is in the proximity of well known lodes or of individual lodes:
Black Pearl Mine - North of Claim, one claim from Bonus.
(This is a large producer of tungsten)
Double Jack Mine S.E. of claim - one claim from Bonus
(Also a tungsten producer)
Blue Steel Claims (Tungsten)

(c) Township, Section and Range

TWP 16 N - RANGE 5W - Section ~~23/24~~ 26 - Yavapai County, Arizona

(d) County and State

Yavapai County, Arizona

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

4. (a) State whether or not property is now in operation, and if in operation, by whom operated.

The property is not in operation at present. However, in 1949 6600 lbs. of WO_3 was hand-mined by owner and crew.

(B) Are you operating this property as Owner?

Yes - Claude O. ECkel, Owner

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

5. Number of years in production -

This mine has been in operation periodically for the past 10 years (Hand-mining)

Production will begin 90 days or less from date of receipt of 75-25 loan (Tungsten)

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

6. Experience of Operators:

Mr. Claude O. Eckel, Owner, is a man of vast experience in mining, both from the prospector's view and from the operator's view. Most of Mr. Eckel's experience has been on the practical side. He has a liberal knowledge of mining operations gathered over a period of some 40 years or more; inasmuch as he has devoted his life to mining and its associated interests. He has a very high reputation among the mining fraternity, and is known for his technical knowledge, prospector's accumen, and ability to mine at a profit. These statements will be substantiated by members of the Arizona Mineral REsources Board and of the Small Mine Operators Union of Arizona, of which Mr. Charles F. Willis is State Secretary. Mr. Charles H. Dunning, Director, Arizona Dept. of Resources will also vouch for Mr. Eckel's ability and integrity. He owns by himself, and in partnership, numerous claims. He also owns several properties and has been a citizen and taxpayer of Arizona for 35 years. Mr. Eckel has also associated with him an attorney, a mining engineer, an accountant, and mining foreman, names of which will be submitted upon request.

Bonus Mining and Milling Co.
Claude J. Eckel, Owner

7. History:

(a) While prospecting in 1934, found Bonus Mine, then made an exhaustive survey to determine the amount of potential ore insofar as possible, on this claim. Found many ore bodies on and below the surface, and deeper than previous workings. (Old workings - origin unknown) By hand mining and assesment work several thousand pounds of WO3 have been removed and sold, all of which makes the owner feel that the BONUS CLAIM will turn out to be an exceptional producer. Findings on Bonus have been substantiated by the U. S. Geographical Survey of the Dept. of Interior, Bureau of Mines, a few years ago. The Dept. have reserved the Bonus for strategic minerals, and monument markers set up around the claim by the Government Engineers. The ore assays between 68 and 72% in some instances. Assay work done by University of Arizona Mineral Dept. In workings new and old, found ore bodies both on and under the surface and deeper than previous old workings. There has been considerable assesment work done since the discovery in 1934 from 34 to 51 inclusive. The property, as stated before, shows tungsten, carnitite, chrome, fluorspar, amethyst, and tantalum. Have taken the following amounts of ore from the property since discover -:

Tungsten -	6060 lbs.
Tantalum	600 lbs.
Chrome	60 lbs.
Amethyst	100 lbs.

(b) Surroundigg properties are owned by applicant, Mr. Eckel. Primary assesment work has been done on these claims. See Sketch attached for location.

(c) U.S.G.S. and Bureau of Mines - DEPT OF INTERIOR has reserved for strategic minerals

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

8. None.

BONUS MINING AND MILLING CO.
CLAUDE O. ECKEL, OWNER

Bonus Mining and Milling Co
Claude O. Eckel, Owner

9. NOT APPLICABLE.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

10. Production:

1. Quantity of product mined and quarried:

6060 lbs. Tungsten WO_3
600 lbs. Tantalum
50 lbs. Chrome
100 lbs. Amethyst

2. Quantity of product processed:

Same as 1.

3. Quantity and gradeof product sold or shipped.

Same as 1.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

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 average monthly rate of production has ever been made due to the fact that most of the WO3 taken from the mine has been by hand-mining. With the funds received from the requested loan, we will be able to purchase necessary equipment and machinery to conduct a real mining operation based upon the above loan funds being available, our estimate of average monthly rate of production will be 400 short tons WO3 Tungsten.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

12. Ore or mineral reserves:

(a) See U. S. Geographical Survey Report (Docket 455)

(b) See sketch attached. Deposit is mining and quarry. See sketch for location and size. See Geologist's Reports Docket 455 filed with DMA, Original 12 page application.

(c) Not applicable

Bonus Mining and Milling Co.
Claude J. Eckel, Owner

13. ACCESS ROADS:

Refer to Page 3 this application - Question 3.

Also see supplementary memorandum enclosed.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

14. Water Supply:

See Question 2 Page 2 this application. Water will be no problem to the Bonus.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

15. Power:

Power to be manufactured by diesel 110 Volts 220 Volts on Claim. This has already been arranged for, to be paid out of loan proceeds.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

16. Labor:

Six miners, three on a shift, two shifts, - one foreman.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

17. Equipment and Facilities:

There is one building on the property, in serviceable condition, housing tools, tungsten bin, and miner's hand tools. Equipment arranged for and ready for delivery consists of compressor, water pressure tank, 3 drill machines, 1 stopper, jackhammer, drifter, hose - water and air with connections, dynamite and other miscellaneous tools to maintain and operate equipment and pipe line. See attached supplementary memo.

Bonus Mining and Milling Co.
Claude O. Eckel, Owner

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

None.

I might add that all necessary equipment and machinery are on order and we can be in immediate production 60 days after matching funds from this loan (75-25 - tungsten) are received.