DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1565

DO NOT DETACH THIS SLIP

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

This document has been recorded as
EXPLORATION PROJECT

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

Routing Slip

	Code 340		
To:	Ferro-Alloys Br.	Date	10/22/51
To:	Dir. Supp. Division	Date	10/25/51
To:	Reports and Records	Date	OCT 26 1951
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George B. Holderer DATE: November 6, 1951

FROM : T. P. Thayer Thayer

SUBJECT: DMA 1565-X Twentieth Century tungsten. 1565

I see no reason to override the recommendation by the ~~field~~ team that the application be denied.

The economic question raised is not repayment to the Government, but overall cost of production.

George B. Holderer November 6, 1951

T. P. Thayer

DMA 1565-X Twentieth Century tungsten.

I see no reason to override the recommendation by the field team that the application be denied.

The economic question raised is not repayment to the Government, but overall cost of production.

TPThayer:gt

340
FILE COPY
SURNAME:

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

Holderer

OCT 29 1951

a.e.e

Mr. Nervin J. Pavlacky
Box 979
Globe, Arizona

In reply please refer to
DMA-1565X-Tungsten

Dear Mr. Pavlacky:

We have received the field report on your property and regret that we must deny your application.

The cost of mining and shipping the ore would be extremely high because of the narrow vein and isolated location. The cost of production is certain to be much higher than the value of the ore.

Very truly yours,

SIGNED

A. B. Parsons
Acting Director, Supply Division

p.f. 10-29

TJBallard:ll 10/25/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Field Team, Region IV

Mr. Marvin J. Pavlacky
Box 979
Globe, Arizona

In reply please refer to
DMA-15657-Tungsten

Dear Mr. Pavlacky:

We have received the field report on your property and regret that we must deny your application.

The cost of mining and shipping the ore would be extremely high because of the narrow vein and isolated location. The cost of production is certain to be much higher than the value of the ore.

Very truly yours,

A. E. Parsons
Acting Director, Supply Division

TJBallard:ll 10/25/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Field Team, Region IV

OCT 29 1951

Mr. Mervin J. Pavlacky
Box 979
Globe, Arizona

In reply please refer to
DMA-1565X-Tungsten

Dear Mr. Pavlacky:

We have received the field report on your property and regret that we must deny your application.

The cost of mining and shipping the ore would be extremely high because of the narrow vein and isolated location. The cost of production is certain to be much higher than the value of the ore.

Very truly yours,

SIGNED

A. E. Parsons
Acting Director, Supply Division

TJBallard:ll 10/25/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Field Team, Region IV

Memorandum

To: Reports and Records Unit

Through: Director, Supply Division

From: Tungsten Branch

Subject: DMA-1565X Tungsten, Exploration project $9,579.50
Marvin J. Pavlacky
Box 979
Globe, Arizona

Property: Twentieth Century Mine
Gila County, Arizona

The subject application has been reviewed by the field team and is denied.

The applicant proposed exploration on the main vein which averages about two feet wide, one hundred feet long, and contains about 1.0 percent WO_3. Inferred ore is estimated as about 1,500 tons 1.0 percent WO_3.

The applicant does not know where he can sell the ore, and it is doubtful if any payment would be received for the small gold-silver value.

The cost of mining and shipping the ore would be extremely high because of the narrow vein and isolated location. The cost of production is certain to be much higher than the value of the ore.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

Attachments

Approved: SIGNED

Acting Director, Supply Division

TJBallard:ll 10/25/51
CC: DMA DocketFile
Adm. Reading File
Mr. Holderer
Field Team, Region IV

List of File to Reports and Records Unit
DMA-1565X Tungsten

4 Copies MF-100 with letter and attached answers
4 Copies MF-103 with attached answers
1 Field Referral
1 List of file to field
1 Copy letter to Pavlacky

10/25/51

340
FILE COPY
SURNAME:

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

Folder

OCT 2 6 1951

Memorandum

To: Reports and Records Unit

Through: Director, Supply Division

From: Tungsten Branch

Subject: DMA-1565X Tungsten, Exploration project $9,579.50
Marvin J. Pavlacky
Box 979
Globe, Arizona

Property: Twentieth Century Mine
Gila County, Arizona

The subject application has been reviewed by the field team and is denied.

The applicant proposed exploration on the main vein which averages about two feet wide, one hundred feet long, and contains about 1.0 percent WO_3. Inferred ore is estimated as about 1,500 tons 1.0 percent WO_3.

The applicant does not know where he can sell the ore, and it is doubtful if any payment would be received for the small gold-silver value.

The cost of mining and shipping the ore would be extremely high because of the narrow vein and isolated location. The cost of production is certain to be much higher than the value of the ore.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

N.S
R+R

Attachments

Approved:

SIGNED

Acting Director, Supply Division

TJBallard:ll 10/25/51
CC: DMA DocketFile
Adm. Reading File
Mr. Holderer
Field Team, Region IV

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

OCT 26 1951

Memorandum

To: Reports and Records Unit

Through: Director, Supply Division

From: Tungsten Branch

Subject: DMA-1565X Tungsten, Exploration project $9,579.50
Marvin J. Pavlacky
Box 979
Globe, Arizona

Property: Twentieth Century Mine
Gila County, Arizona

The subject application has been reviewed by the field team and is denied.

The applicant proposed exploration on the main vein which averages about two feet wide, one hundred feet long, and contains about 1.0 percent WO_3. Inferred ore is estimated as about 1,500 tons 1.0 percent WO_3.

The applicant does not know where he can sell the ore, and it is doubtful if any payment would be received for the small gold-silver value.

The cost of mining and shipping the ore would be extremely high because of the narrow vein and isolated location. The cost of production is certain to be much higher than the value of the ore.

George B. Holderer
Chief, Tungsten Branch

Attachments

Approved:

Acting Director, Supply Division

10/24/51

List of File to Reports & Records
DMA-1565X Tungsten

4 - Copies MF-100 with letter & attached answers
4 - " " -103 with attached answers
1 - ~~test~~ Field referral
1 - List of file to field
1 - Copy letter to Pavlacky 8/27/51

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D.C.

OCT 22 9 10 AM '51

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

224 New Customhouse
Denver 2, Colorado

October 17, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: Final Report, DMA Docket 1565X, Marvin J. Pavlacky, Twentieth Century Tungsten Mine, Gila County, Arizona

Enclosed herewith are the original and two copies of the report on the subject docket.

We concur with the conclusions and recommendations of the examining team that the exploration loan of $9,579.50 be denied.

The brochure is enclosed.

J. H. East, Jr.

for A. H. Koschmann

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.
200 New Customhouse
Denver 2, Colorado

October 16, 1951

Memorandum

To: DMA Field Team, Region IV

From: Ogden Tweto

Subject: DMA Docket 1565X, Twentieth Century Mine, (Tungsten), Gila County, Arizona

Enclosed are the original and 7 copies of the geologic report by J. A. MacKallor and J. N. Faick of the U. S. Geological Survey covering the above docket. It has been recommended that the loan be denied.

The U. S. Bureau of Mines will not submit a separate report on this docket.

The brochure is enclosed.

Ogden Tweto

Ogden Tweto, Alternate
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

October 11, 1951

Memorandum

To: Field Team, Region IV, Denver, Colorado
Throught Mr. A. H. Koschmann

From: Mr. A. F. Shride, Tucson, Arizona

Subject: Final Report on Docket DMA 1565K, Twentieth Century Mine (Tungsten), Gila County, Arizona

Enclosed are the original and 7 copies of the above report by J. A. MacKallor and . . N. Faick of the Geological Survey. The Bureau of Mines will not submit a separate report on this docket.

This report and the recommendation that an exploration loan be denied for lack of geological possibility of discovering minable tungsten ore have my approval.

The brochure is enclosed.

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 9

TWENTIETH CENTURY MINE
GILA COUNTY, ARIZONA
DMA 1565X

TUNGSTEN

Geology

By Jules A. MacKallor
and
John N. Faick

Geologists, U. S. Geological Survey

TWENTIETH CENTURY MINE
GILA COUNTY, ARIZONA
DMA 1565X

TUNGSTEN

CONTENTS

Geology	Page
Summary, Conclusions, and Recommendations	1
Introduction and Acknowledgments	1
Location	1
History and Extent of Claims	2
General Geology	2
Description of the Deposits	4
Project Proposals	5
Ore Reserves	6
Conclusions and Recommendations	7

ILLUSTRATIONS

	To Follow Page
Fig. 1 Twentieth Century Claims, Gila County, Arizona	2

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

The Twentieth Century mining claims, located about 15 miles by road south of Globe, Arizona have been prospected to a limited extent for low grade tungsten ores. Wolframite is the dominant tungsten mineral but a little scheelite is present. The applicant, Mr. Marvin J. Pavlacky, proposes exploration on a vein averaging about 2 feet wide, and about 100 feet long and containing about one percent tungsten. This is too small and too low grade to justify exploration, especially in a geographically isolated area such as this. The cost of production is certain to be higher than the value of the ore, therefore it is recommended that application DMA 1565X be denied.

INTRODUCTION AND ACKNOWLEDGMENTS

At the request of the Defense Minerals Administration a field examination was made of the Twentieth Century claims near Globe, Arizona in order to determine if the property warranted an exploration loan for tungsten. The afternoon and evening of September 26, 1951 was devoted to interviewing the owner and applicant, Mr. Marvin J. Pavlacky, 374 S. Deveroux St., Globe, Arizona, and in examining his claims.

The assistance of Mr. Pavlacky in making this examination is greatly appreciated for the claims could not have been found without a guide. Published works of F. L. Ransome were freely drawn upon for this report.

LOCATION

The Twentieth Century claims are located in Sec. 7, T. 2 S., R. 15 E., on the south side of the Pinal Mountains at an altitude of 5300 feet. The property is in the southern half of the Globe quadrangle, Gila County, Arizona, and is about one mile north of the

abandoned mining town of Doak. By road the property is approximately 15 miles southwest of Globe, Arizona, the nearest shipping point.

The Twentieth Century claims can be reached from Globe by following the Ice House Canyon road approximately three miles to the end of the pavement, then turn right on the Ferndale-Signal Peak road. This is maintained by the county and is usually in a fair condition. After travelling approximately nine miles on the county road, turn right on the Doak road and go about three miles to reach the claims. In most places the Doak road is wide enough for only one car, but is in fair condition and passable for passenger automobiles.

HISTORY AND EXTENT OF CLAIMS

Mr. Pavlacky owns three unpatented claims for which he has made an application for a loan. The claims are the Twentieth Century numbers 2, 6, and 7. Figure 1 shows the approximate location of the claims.

These three claims were acquired by Mr. Pavlacky by relocation of old abandoned claims. Only a small amount of work has been done on the claims and there is no evidence of any production.

An old shaft is located in the center of the Twentieth Century #6 claim. The shaft is inclined 43°, following the dip of a quartz vein, and extends approximately 60 feet from the surface. The shaft has been partially cleaned out by Mr. Pavlacky but still is in poor condition, and could not be satisfactorily examined.

GENERAL GEOLOGY

The Pinal schist of early Precambrian age exposed over more than 50 percent of the southern half of the Globe quadrangle. In the Pinal

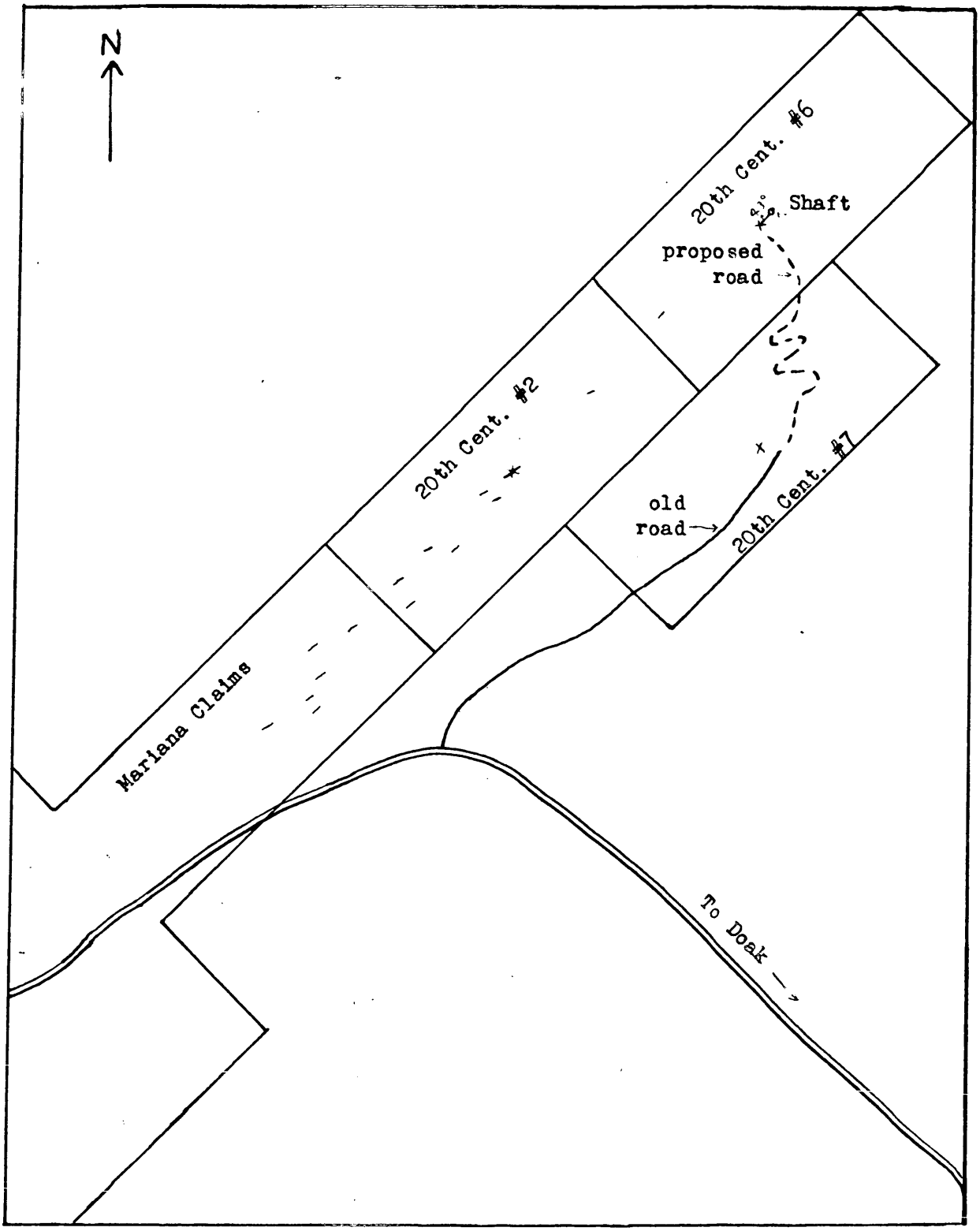


Fig. 1 D. M. A. 1565X
TWENTIETH CENTURY CLAIMS,
GILA COUNTY, ARIZONA
Scale: 1" = 600'

formation sericite schist is the most abundant type of rock, but quartzose grit is fairly common. The banding and cleavage of the schist strikes northeasterly and generally dips from 45° to 90° northwesterly.

The Pinal schist is intruded by Precambrian Madera diorite which is exposed in several irregular areas of a few square miles each. The outcrops of diorite are somewhat elongated in a northeast-southwest direction and contain numerous inclusions of Pinal schist.

The Madera diorite is a light grey, coarsely crystalline, intrusive rock, which in some places approaches granodiorite in composition. According to Ransome[1] quartz, biotite, and andesine are the principal minerals, and orthoclase and microcline are present.

The southern half of the Globe quadrangle is not heavily mineralized; however, small deposits of sulfides and other valuable minerals have been discovered.

The Mariana mine, formerly known as the Bobtail mine, lies nearly a mile southwest of the Twentieth Century claims. Ransome cited the Bobtail mine as an example of a mineralized fault breccia in Pinal schist and reported the presence of pyrite, chalcopyrite, sphalerite, galena, and huebnerite. The main quartz vein of the Bobtail strikes northeasterly and dips 62° to the northwest. According to Mr. Pavlacky, several carloads of ore were shipped from this mine to the El Paso Smelter and to the International Smelter at Miami, Arizona for their value of gold, silver, copper, lead, and zinc. No other production from this area is known to the writers.

1/ Ransome, F. L.: Globe Folio No. 111, 1904, p. 15.

A zone of narrow, short, northeasterly striking, quartz stringers on the Twentieth Century claims appear to be on a zone of weak structural deformation extending from the Bobtail mine. No fault brecciation was observed and only the small quartz-filled fissures prove the presence of earlier deformation.

DESCRIPTION OF THE DEPOSITS

The Twentieth Century claims are so located as to include several very narrow, white massive quartz veins in Pinal schist. These veins are only a few hundred feet west of the contact between the Pinal schist and Madera diorite, and are nearly parallel to this contact. The veins are usually less than a foot wide and are exposed only for a length of a few feet; none were found to exceed 100 feet in length, although the veins may extend to greater distances under a cover of soil and vegetation.

The typical vein is white, massive quartz containing a few needles of wolframite and grains of chalcopyrite, and sphalerite. Traces of scheelite were seen under an ultraviolet light and values of combined gold and silver up to about $10.00 per ton are reported by the applicant.

On the southwestern half of the Twentieth Century No. 2 claim and the northeastern half of adjoining Mariana claim, the veins are only from two to three inches in thickness but are quite numerous. The Twentieth Century No. 7 claim shows practically no signs of mineralization. The material exposed in the discovery pit has been thoroughly altered and weathered but no vein material is exposed.

The longest vein observed is exposed for a distance of about 100 feet on the Twentieth Century No 6 claim. This vein cuts the Pinal

schist and strikes N. 50° E. with a dip of 43° to the northwest. The vein has been exposed for about 75 feet by a small prospect pit and a shallow shaft. At the prospect pit the vein is about 18 inches wide and at the collar of the shaft the vein is about 3 feet wide. According to Mr. Pavlacky the vein is irregular in width and thins to about 6 inches at a depth of 15 feet and again thickens to about 2 feet of the bottom of the shaft.

The vein consists principally of quartz but contains megascopic amounts of scheelite, wolframite, pyrite, and sphalerite. About 15 feet below the surface where the vein was 2 feet wide, Mr. Pavlacky collected a chip sample across the width of the vein. This sample assayed 1.20 percent WO_3. Another sample taken here assayed $1.43 in gold and $8.26 in silver. A sample taken from the shallow prospect pit showed 1 percent WO_3. Another sample from the same place showed $5.15 in gold and $4.13 in silver.

This is the most important vein on the Pavlacky property and it is too small, too low grade, and too isolated to be any value.

PROJECT PROPOSALS

The applicant has proposed an exploration project, costing $9579.50 for tungsten. The Government's share would be 75 percent of the total cost or $7184.61. The applicant originally proposed to spend 15 percent of the money in stripping with a bulldozer and exposing the small vein on Twentieth Century No. 2 claim. He has since decided to abandon this phase of the project and to spend all of the money on the vein in Twentieth Century No. 6 claim.

The applicant proposes to recondition, clean out, and deepen the old shaft on Twentieth Century No. 6 to a depth of 210 feet. It is now believed that the old shaft extends to a depth of 60 feet, rather than 35 feet, as stated in the original application.

An old logging road needs to be reconditioned for 3000 feet and 2000 feet of new road must be made before the shaft can be reached by truck. Mr. Pavlacky plans to rent a bulldozer and hire an operator for this work. No provisions are made for the work, but the money that was originally to be spent on surface excavation would cover the cost of road building.

If any exploration is to be done on the Twentieth Century claims, the applicant's proposal to recondition and deepen the shaft on the Twentieth Century No. 6 claim is the proper method. The exploration plan should contain provisions for 100 feet of drifting along the vein. The $9579.50 estimated cost of the exploration program would not be sufficient to allow any drifting. It appears that the applicant has stretched his financial resources to the limit in order to pay his cost of the proposed program.

ORE RESERVES

At the present time the Twentieth Century No. 6 claim has about 1500 tons of inferred "ore" thought to contain 1 percent WO_3 and a few dollars in gold and silver per ton. The inferred ore is in a vein 6 inches to 3 feet wide with an average width of two feet. The ore is thought to extend at least 100 feet along the strike and 100 feet down the dip of the vein.

The applicant does not know where he can sell ore containing 1 percent WO_3, as the writers have been advised that most of the custom buyers want ore containing at least 2 percent WO_3. It is extremely doubtful if any payments would be received for the small amount of gold and silver in the ore.

CONCLUSIONS AND RECOMMENDATIONS

The cost of mining and shipping the ore would be extremely high, because of the narrow width of the vein and the isolated location. The ore would have to be trucked 15 miles over secondary roads to the railroad and then shipped to a buyer. It is not certain that a buyer can be found for the 1 percent WO_3 ore. Since the cost of production is certain to be much higher than the value of the ore, it is recommended that application DMA 1565X be denied.

List of File to Reports and Records Unit
DMA-1565X Tungsten

4 Copies MF-100 with letter and attached answers
4 Copies MF-103 with attached answers
1 Field Referral
1 List of file to field
1 Copy letter to Pavlacky

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

AUG 27 1951

REGIONAL DIRECTOR'S OFFICE
REGION IV
AUG 28 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. Jack East, Jr. Executive Officer
DMA Field Team Region IV
224 New Customhouse Building
Denver 2, Colorado

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1565-X

Commodity Tungsten

Applicant Marvin J. Pavlacky

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review".

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

T. P. Thayer
For Geological Survey

6/5/51 | 27
sent out 8/27
8/20/51

Defense Minerals Administration

Review of Application for Exploration Assistance

J. H. East, Q.P. Executive Officer
224 New Customhouse Bldg.
Denver 2, Colorado

Docket No. 1565-X

Commodity Tungsten

Total Amount $9579.50

75% Govt. Participation $7184.61

1. Name and Address of Applicant Marvin J. Pavlacky
Box 979, Globe, Arizona

2. Location of Property 15 miles south of Globe

3. Mineral or metal Tungsten + base metals Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor ✓ Probably

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Would require gas or diesel

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Check

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Fairly

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? Not adequate

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed? Yes

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable? Yes

f) Should more information be requested from applicant? Check

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes

b) If so, are sufficient data furnished? Check If so, attach a draft.

c) Is a field check needed? Yes

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? Check If so, attach a draft.

c) Are rents and charges reasonable? Check

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? Yes

b) Is the schedule adequate for the work proposed? Check

c) Is the schedule excessive for the work proposed? "

d) Are the proposed wages and salaries reasonable? "

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? NO

b) Sufficient data?

c) Reasonable?

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? No information on width of vein or samples. Perhaps more surface exploration would be more logical at this stage than sinking shaft to 210 feet. Please check.

Reviewed by: J. D. Rydland

T. P. Thayer

Supt. Hollow

Date 8/20/51

INT.-DUP. SEC., WASH., D.C. 99009

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

AUG 27 1951

Mr. Marvin J. Pavlicky
Box 979
Globe, Arizona

In reply please refer to
DMA-15651 Omenten

Dear Mr. Pavlicky:

We are referring your application to Mr. Jack East, Jr., Executive Officer, DMA Field Team Region IV, 404 New Customhouse Building, Denver 2, Colorado for a field examination.

Please contact Mr. East and offer your assistance in the examination.

Very truly yours,

SIGNED

Tom Lyon
Director, Supply Division

T.J.Ballard:ec
August 22, 1951

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

AUG 27 1951

Mr. Marvin J. Pavlicky
Box 979
Globe, Arizona

In reply please refer to
DMA-1565X Tungsten

Dear Mr. Pavlicky:

We are referring your application to Mr. Jack East, Jr., Executive Officer, DMA Field Team Region IV, 220 New Customhouse Building, Denver 2, Colorado for a field examination.

Please contact Mr. East and offer your assistance in the examination.

Very truly yours,

SIGNED

Tom Lyon
Director, Supply Division

TJBallard:ec
August 22, 1951

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

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

Mr. Jack East, Jr. Executive Officer
DMA Field Team Region IV
224 New Customhouse Bldg.
Denver 2, Colorado

AUG 27 '5

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1565-X
Commodity Tungsten
Applicant Marvin J. Parlacky

Please expedite the consideration of this application with particular reference to the points raised in the attached "Review."

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

CC: Reports and Records Unit
Coordinating Committee
Mr. Holderer

FILE COPY
SURNAME:

240

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

Q.E.C. Holderer Thayer Lyon

AUG 27 1951

Mr. Marvin J. Pavlacky
Box 979
Globe, Arizona

In reply please refer to
DMA-1565X Tungsten

Dear Mr. Pavlacky:

We are referring your application to Mr. Jack East, Jr., Executive Officer, DMA Field Team Region IV, 224 New Customhouse Building, Denver 2, Colorado for a field examination.

Please contact Mr. East and offer your assistance in the examination.

Very truly yours,

SIGNED

Tom Lyon
Director, Supply Division

TJBallard:ec
August 22, 1951

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

CONTENT OF FILE TO FIELD

DMA-1565X Tungsten

1. Form MF-103 with 3 pages typed answers and sketch

2. Form MF-100 with 3 pages typed answers and sketch

3. Letter Pavlacky to DMA 7/25/51

8/22/51

Sent out 8/27

CONTENT OF FILE TO FIELD

DMA-1565X Tungsten

1. Form MF-103 with 3 pages typed answers and sketch

2. Form MF-100 with 3 pages typed answers and sketch

3. Letter ~~Paulakcy~~ Paulacky to DMA 7/25/51

8/22/51

Form MF-100
(May 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

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

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-1565X

Date received 7/30/51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
LAWSON F. STROBEL
Executive Secretary

Name and address of applicant

Date May 8, 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) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production None

   If not in production or operation, estimated date when production will begin To be determined when exploration work is completed.
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 examinati recommended exploration and development, and metallurgical investigations.

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

Name and Address (a)	Official Title (If officer is also director indicate by "D") (b)	Total of Annual Salary, Commissions, Bonuses, Etc., Received From Applicant and Affiliates During Last Fiscal Year (c)	Estimated Net Worth Outside of Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Preferred (f)	Bene[illegible]: Amount (g)	Net Cash Surrender Value After Loans (h)
Not applicable							
	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 Not applicable	$	$	$		
Preferred stock Not applicable	$	$	$		

*Indicate period covered.

10. Production:

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

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Since the mine has not produced this does not apply

12. Ore or Mineral Reserves:

(a) Describe the [illegible]e or mineral deposit briefly. Accompany the a[illegible]lication 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)	2000	See attached sheet.	$85.28	90%	Not known

(*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.

By Marvin J. Pavlecky
(Signature of authorized official)

(Name of company)

May 8, 1951
(Date)

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.

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

Globe, Arizona
July 25, 1951

DMA-1565 X

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

Dear Sirs:

I am resubmitting four copies of Form MF-100 to be filed with or attached to four copies of Form MF-103, on my Tungsten exploration loan which I have already sent in and are in your office now.

I have a letter acknowledging receipt of four copies of Form MF-100 which I sent the Denver office and they said they were sending them on to Washington. They actually only sent you three copies which has caused this delay.

This should take care of everything as far as I know. If there is any additional information you need I will be glad to furnish it for you.

Sincerely yours

Marvin J. Pavlacky

Marvin J. Pavlacky

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 30 1951

Globe, Arizona
July 25, 1951

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

Dear Sirs:

I am resubmitting four copies of Form MF-100 to be filed with or attached to four copies of Form MF-103, on my Tungsten exploration loan which I have already sent in and are in your office now.

I have a letter acknowledging receipt of four copies of Form MF-100 which I sent the Denver office and they said they were sending them on to Washington. They actually only sent you three copies which has caused this delay.

This should take care of everything as far as I know. If there is any additional information you need I will be glad to furnish it for you.

Sincerely yours

Marvin J. Pavlacky

Marvin J. Pavlacky

Defense
JUL 30 1951

Globe, Arizona
July 25, 1951

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

Dear Sirs:

I am resubmitting four copies of Form MF-100 to be filed with or attached to four copies of Form MF-103, on my Tungsten exploration loan which I have already sent in and are in your office now.

I have a letter acknowledging receipt of four copies of Form MF-100 which I sent the Denver office and they said they were sending them on to Washington. They actually only sent you three copies which has caused this delay.

This should take care of everything as far as I know. If there is any additional information you need I will be glad to furnish it for you.

Sincerely yours

Marvin J. Pavlacky

Marvin J. Pavlacky

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
[illegible] R. STROBEL
Executive Secretary

Marvin J. Pavlacky
Box 879
Globe, Arizona

Globe, Arizona
May 8, 1951

General Technical Data numbered and answered in the same order as on Form MF-100

1. Materials Produced:
   (a) Chief products is Tungsten, although none produced as yet because this is a new mine location.
   (b) Zinc, Lead, Gold and Silver.
2. The name of this mine is "Twentieth Century Mine" It is an underground metal mine, but future exploration can only determine this exactly.
   (a) 35 ft. inclined shaft.
   (b) None
   (c) 30 ft. of adits.
   (d) Since this property is in the prospect stage, this accounts for the small amount of Linear feet of workings.
   The workings are not flooded and there is no pumping problem.
   I am unable to answer what the productive capacity is.
3. For each operation listed above supply the following:
   (a) The property is located 15 miles south of Globe, Arizona which is the shipping point.
   (b) The Globe Mining District.
   (c) I do not know.
   (d) Gila, Arizona.
4. (A) Limited part time exploration work, testing and sampling at this time by Marvin J. Pavlacky, owner.
   (b) I am working this property as owner.
5. Answered on form MF-100
6. Marvin J. Pavlacky is the owner and manager of this property and I have had 8 years under ground and open pit mining experience. I have had 1 years experience in milling of ores, working as shift boss and foreman in mills. I have leased and operated small mining properties.
7. History:
   (a) All exploration done is answered in Question 2 and no. 5. The reason for suspension of exploration and developement work is due to lack of financing and low metal prices until just recently.
   (b) The Mariana Mine formerly known as Gila-Pinal mines Company in 1898 and later the Bobtail Mine has produced many carloads of direct shipping ore to the El Paso smelter and later to the International smelter at Miami, Arizona. Values were in Gold Silver and Copper, Lead Zinc and Tungsten. My property is located on the extension veins of the above mentioned property.
   In the neighborhood Mrs Brice Westlake recently sold her Tungsten property to H.B Piggott of San Francisco. This property has produced small amounts of Tungsten. In an article in the Phoenix Gazette dated May 2, 1951 H.B. Piggott stated as a result of recent tests the above mentioned property was one of the nations greatest potential sources of Tungsten. In the same article at Phoenix, Charles H. Dunning, Director of the State Department of Mineral resources, said, We have always thought the Pinal Mountains were a good Tungsten Prospect.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

7. History Cont. part (b)
(3) Another property in the neighborhood, is known as the Sampsel Mine which has produced Tungsten concentrates and still is a potential producer.
(4) There are many small to medium sized properties in the vicinity of my property which have produced Gold, Silver, Lead, Zinc and Copper, also within a few miles are such Huge producers as Miami Copper Co. and Inspiration Copper Co.
(c) There are no private reports that apply to this application. I do want to state that from my own examination of other mines adjoining my property that the outcrops of veins and what work has been done, my property compares favorably.

8,9, and 10, not applicable.

11. Answered on form MF-100

12. Ore or Mineral reserves.
(a) There are two ore zones showing on the main vein of 175 and 200 ft. long on the surface and from a few inches to 5 ft. wide. There are at least two other veins on the property with commercial possibilities but they have had less testing and work done on them.

In writing of the Geology of the adjoining Mariana Mine formerly known as the Bobtail Mine. F.L. Ransome of the U.S. Geological Survey refers to the Bobtail Mine in the Globe Folio No. 111, on pages 14 and 15: "As examples of lode deposits, may be cited the Summit, Cola and Goodwin and the Bobtail lodes, carrying sulphides in Pinal Schist."

The Mariana Mine formerly known as the Bobtail mine adjoins my property and I believe my claims are on the extension of the same vein system as the Mariana Mine.

The geology in general from my own study on myclaims is, the veins are fissure veins and the valuable minerals are Tungsten Gold, Silver, Copper, Zinc and Lead. The country rock which encases the veins are Rhyolite and Pinal Schist and in some places it is Schist on both walls. There is a large Granite area on the eastern edge of the property and is within a few hundred feet of the main vein.

(b) Samples were cut across the main vein and an average of assays are shown below and Gross value shown on form MF-100. Tungsten 1.10 % WO_3. Gold $2.94 Silver $4.34 per short ton. Probable or mineral reserve estimated from answer (a) Question No. 12.

13. Access roads:
(a) The roads are secondary dirt roads and it is 15 miles to Globe, Arizona the shipping point, resident and supply points.

14. Water Supply:
(a) Source of water is one of the mine locations and it is sufficient for all seasons of the year but will need some additional developement for milling purposes.

15. Power:
(a) No power used at present, Diesel or Gasoline engines would have to be used.

16. Labor:
Not Applicable.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

17. Equipment and facilities:
The only equipment I have at the present is hand tools. I plan on buying an air compressor, hoist and machines for my share of a loan under the Matching Principle plan providing the loan goes through.

18. Particular conditions I want to mention are, in answering Question no. 12. (2)(b) I want to make it clear I have no tonnage proved or blocked out, the 2000 short tons is estimated ore.

The gross value per ton is rather high and it is quite probable that this figure will be considerably lower when the mine comes into production.

The byproducts Lead, Zinc and Copper have not been assayed enough to get an average value. I believe with further testing and assaying these metals will prove worth saving.

Globe, Arizona
July 25, 1951

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

Dear Sirs:

I am resubmitting four copies of Form MF-100 to be filed with or attached to four copies of Form MF-102, on my Tungsten exploration loan which I have already sent in and are in your office now.

I have a letter acknowledging receipt of four copies of Form MF-100 which I sent the Denver office and they said they were sending them on to Washington. They actually only sent you three copies which has caused this delay.

This should take care of everything as far as I know. If there is any additional information you need I will be glad to furnish it for you.

Sincerely yours

Marvin J. Pavlacky

Marvin J. Pavlacky

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
WASHINGTON
JUL 30 1951
Executive Secretary

ORIGINAL.

Globe, Arizona

May 8, 1951

Bureau Of Mines

224 New Custom House Building

Denver 2, Colorado

Dear Sirs:

I am enclosing four copies of form MF-100 and attached sheets with information and Technical data for use under the Defense Production act of 1950.

I am interested mainly in being assigned a serial number so that I can obtain priorities for allocation of mining machinery and supplies and other Government assistance if I need it.

My plans are to apply for a loan on my Tungsten property under the matching principle plan, I will send in the appropiate forms later.

Yours truly,

Marvin J. Pavlacky.

Box 979

Globe, Arizona

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

General Technical Data numbered and
answered in the same order as on Form MF-100.

1. Materials produced:
   (a) Chief product is Tungsten, although none produced as yet because this is a new mine location.
   (b(Zinc, Lead, Gold and Silver.
2. The name of this mine is "Twentieth Century Mine" It is an Underground ~~mine~~ metal mine, but future exploration can only determine this exactly.
   (a) 35 ft. inclined shaft.
   (b) None
   (c) 30 ft. of adits.
   (d) Since this property is in the prospect stage, this accounts for the small amount of Linear feet of workings.
   The workings are not flooded and there is no pumping problem.
   I am unable to answer what the productive capacity is.
3. For each operation listed above supply the following:
   (a) The property is located 15 miles south of Globe, Arizona which is the shipping point.
   (b) The Globe Mining District.
   (c) I do not know.
   (d) Gila, Arizona
4. (A) Limited part time exploration work, testing and sampling at this time by Marvin J. Pavlacky, owner.
   (b) I am working this property as owner.
5. Answered on form MF-100.
6. Marvin J. pavlacky is the owner and manager of this property and I have had 8 years under ground and open pit mining experience. I have had 1 years experience in milling of ores, working as shift boss and foreman in mills. I have leased and operated small mining properties.
7. History:
   (a) All exploration done is answered in Question 2 and no. 5. The reason for suspension of exploration and developement work is due to lack of financing and low metal prices until just recently.
   (b) The Mariana Mine formerly known as Gila-Pinal mines Company in 1898 and later the Bobtail Mine has produced many carloads of direct shipping ore to the El Paso smelter and later to the International smelter at Miami, Arizona. Values were in Gold Silver and Copper, Lead Zinc and Tungsten. My property is located on the extension veins of this above mentioned property.
   In the neighborhood Mrs Brice Westlake recently sold her Tungsten property to H.B. Piggott of San Francisco. This property has produced small amounts of Tungsten. In an article in the Phoenix Gazette dated May 2, 1951 H. B. Piggott stated as a result of recent tests the above mentioned property was one of the nations greatest potential sources of Tungsten. In the same article at Phoenix, Charles H. Dunning, Director of the State Department of Mineral resources, said. We have always thought the Pinal Mountains were a good Tungsten Prospect.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

7. History Cont. part (b)
   (3) Another property in the neighborhood, is known as the Sampsel Mine which has produced Tungsten concentrates and still is a potential producer.
   (4) There are many small to medium sized properties in the vicinity of my property which have produced Gold, Silver, Lead, Zinc and Copper, also within a few miles are such Huge producers as Miami Copper Co. and Inspiration Copper Co.
   (c) There are no private reports that apply to this application. I do want to state that from my own examinations of other mines adjoining my property that the outcrops of veins and what work has been done, my property compares favorably .

8, 9, and 10, not applicable.

11, Answered on form MF-100

12, Ore or Mineral reserves.
   (a) There are two ore zones showing on the main vein of 175 and 200 ft. long on the surface and from a few inches to 5 ft. wide. There are at least two other veins on the property with commercial possibilities but they have had less testing and work done on them.

In writing of the Geology of the adjoining Mariana Mine formerly known as the Bobtail Mine. F.L. Ransome of the U.S. Geological Survey refers to the Bobtail Mine in the Globe Folio No. 111, on pages 14 and 15: " AS examples of lode deposits, may be cited the Summit, Cola and Goodwin and the Bobtail lodes, carrying sulphides in Pinal Schist."

The Mariana Mine formerly known as the Bobtail Mine adjoins my property and I believe my claims are on the extension of the same vein system as the Mariana Mine.

The Geology in general from my own study on my claims is; the veins ARE fissure veins and the valuable minerals are Tungsten Gold, Silver, Copper, Zinc and Lead. The country rock which encases the veins are Rhyolite and Pinal Schist and in some places it is Schist on both walls. There is a large Granite area on the eastern edge of the property and is within a few hundred feet of the main vein.

   (b) Samples were cut across the main vein and an average of assays are shown below and Gross value shown on form MF-100. Tungsten 1.10 % WO_3. Gold $2.94 Silver $4.34 per short ton. Probable or mineral reserve estimated from answer (a) Question No. 12.

13. Access roads:
   (a) The roads are secondary dirt roads and it is 15 miles to Globe, Arizona the shipping point, resident and supply points.

14. Water Supply:
   (a) Source of water is one of the mine locations and it is sufficient for all seasons of the year but will need some additional developement for milling purposes.

15. Power:
   (a) No power used at present. Diesel or Gasoline engines would have to be used.

16. Labor:
   Not Applicable.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

17. Equipment and facilities:
The only equipment I have at the present is hand tools. I plan on buying an air compressor, hoist and machines for my share of a loan under the Matching Principle plan providing the loan goes through.

18. Particular conditions I want to mention are, in answering Question no. 12, (2) (b) I want to make it clear I have no tonnage proved or blocked out, the 2000 short tons is estimated ore.

The Gross value per ton is rather high and it is quite probable that this figure will be considerably lower when the mine comes into production.

The byproducts Lead, Zinc and Copper have not been assayed enough to get an average value. I believe with further testing and assaying these metals will prove worth saving.

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-1565X

Date received 7/30/51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
LINDON F. CRISSEL
Executive Secretary

Marvin J. Pavlacky
Box 979
Globe, Arizona

Name and address of applicant

Date May 8, 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 None

   If not in production or operation, estimated date when production will begin To be determined when Exploration work is completed
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)
Not Applicable							
	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 Not Applicable	$	$	$		
Preferred stock Not Applicable	$	$	$		

*Indicate period covered.

10. Production:

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

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Since the mine has not produced this does not apply

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)	2000	See Attached sheet	$85.28	90%	Not known

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Marvin J. Paulacky
(Signature of authorized official)

May 8, 1957
(Date)

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.

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

Sent MF... to Speaker, they returned them to applicant for more information on 7/17/50
This messes up processing application 103.
Man surface work

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 1565X

Date received 6-4-51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Marvin J. Pavlacky
Box 979
Globe, Arizona

Name and address of applicant

Date May 28, 1951

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $9579150

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 15 miles south of Globe Arizona

Date of filing MF-100 May 8, 1951

DMA Docket Number, if available

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. None
7. If lessee, attach a copy of the lease and state if it is in good standing. Not Applicable
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. See attached sheet
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 28 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? See attached sheet

*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 See attached sheet

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. None

THE EXPLORATION See attached sheet.

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 See attached sheet

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.

(Name of company)	By Marvin J. Pavlacky (Signature of authorized official)
May 28, 1951 (Date)	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

Answers to Questions as [illegible]bered
on MF-103

Marvin J. Pavlacky
Box 979
Globe, Arizona

The Applicant

1 through 5 answered on MF-100.
6. See MF-100
7. See MF-100
8. Assets

1.	$ 800.00	cash
2.	75.00	hand mining tools
3.	2000.00	automobile
4.	682.00	furniture and fixtures
	3557.00	Total

Liabilities

1. Lien on car by GMAC	$432.00
2. Other debts.	150.00
Total	582.00

I have no profit and loss statement.

9. I am prepared to invest $400.00 cash plus three fourths of my labor at the rate of $400.00 per month. The reason I say three fourths of my labor is because I will use $100.00 per month of the Government's share for my wages. This will be sufficient plus rental of $30.00 per month on pickup I intend to buy and own myself plus rental of $50.00 per month on hand tools which I now own.

The Property

10. (a) The real property involved includes three mining claims only.
Twentieth Century #2 has an open adit on it 15 ft. deep.
" " #6 " " inclined shaft 35 ft. deep.
" " #7 " " open adit on it 12 ft. deep.

(b) Legal description is, the three Twentieth Century claims #2, #6, #7, are unpatented mining claims of about 60 acres adjoining the "Mariana Mine" all located in the Globe Mining district, Gila county, 15 miles south of Globe, Arizona and recorded in book 48, at county recorders office, Globe, Arizona. Both (a) and (b) are the same area.

11. The present name of this property is "Twentieth Century Mine"
The Twentieth Century number 7. was formerly known as "The Old Mill" formerly owned by C Jerome Clark now deceased.
The Twentieth Century number 2 also was formerly owned by C. Jerome Clark. Twnetieth Century number 6, was owned by someone as there had been some work done when I located it several years ago. I never found any papers on it so I never found out who the former owner was.

12, 13, and 14 answered on MF-100

15. The ore could be hauled by truck to Globe, Arizona the shipping point and shipped by rail to one of the California ore buyers, or it could be shipped to a Government stockpile the location of which has not been designated yet. If the ore could not be handled by any of the above methods, a mill could be erected on the property and a concentrate made to Government specifications or other Tungsten users specifications. With the Government guaranteeing the price of Tungsten for 5 years I do not anticipate any problem in selling Tungsten.

16. Answered on MF-100

Answers to Questions as numbered
on MF-103

Marvin J. Pavlacky
Box 979
Globe, Arizona
17 and 18 answered on MF-100
19. None

The Exploration

20. Tungsten is the principal mineral for which this exploration is conducted although gold-silver-lead-zinc may also be encountered during the exploration. The type of deposit is a fissure vein or lode.

21. I propose to extend the 35 ft. shaft an additional 175 ft. The shaft is in ore now and this additional sinking would make a total of 210 ft. of exploration downward to prove the ore bodies at depth. The last 10 ft. would be used for a pumping sump. The above work would be done under the matching principle plan in exploring for Tungsten. I would invest 25% and the Government would invest 75% under this plan. The above work would be done on the claim known as the "Twentieth Century No. 6", 85% of the total amount of Money for this project would be spent in sinking this shaft.

I further propose spending 15% of the total amount of Money for this project on the claim known as "Twentieth Century No. 2" this work would be in the form of stripping and otherwise exposing the outcrop with a Bulldozer or open cut adits across the vein for sampling and exploration.

Future developement could be determined after the planned exploration program is completed. This would also apply to Metallurgical investigations, except for regular sampling and assaying during exploration program.

7 months estimated time required to complete project.

22. Factors leading me to believe commercial ore bodies will be found on my property are, the length of the outcrops along the strike of the ore, out crops show favorable assays, also width of vein compares favorably with other veins on other properties in the neighborhood which have produced.

In answering question 7 & 12 on MF-100 giving the History of the adjoining Mariana Mine and also the other mines in the neighborhood and since several of these mines have produced I feel certain that with the showing I have on my property that the proposed project will prove this also to be a producer.

See last sheet for proposed openings and where assays were taken.

Sample list as follows, per short ton.
From my assay certificates.

Sample No. 1	Tungsten 1% Wo3			
" " 2	Tungsten 1.20% Wo3			
" " 3	Gold	$5.15	Silver	$4.13
" " 4	Gold	1.93	Silver	8.26

I have made many chemical tests showing positive Tungsten content in the ore.

The requirements and costs

23. (a) 1 shaft miner	$15.00 per day for 4 months.		$1560.00
1 mucker	12.00 per day for 7 months.		2184.00
1 bookkeeper part time.	5.00 " " " 7 "		840.00
(b) 1 supervisor	3.00 " " " 7 "		700.00

I intend to take active charge of this operation.

(c) Rehabilitation to existing 35 ft. shaft.	500.00
(d) Temporary bachelor quarters at campsite.	448.75

23. Cont.

(d)	Small building for hoist house and for tools.	$100.00
(e)	Used compressor, Jack hammer and hose.	1000.00
	Hoist	800.00
	Timber	800.00
	Air and water pipe	70.00
	Dynamite	250.00
(f)	I do not intend to rent anything, I do intend tobuy everything I need with the aid of the Government.	
(g)	Rental value on hand tools	50.00
	" " " pickup truck I intend to buy and own myself.	30.00
(h)	Hoist cable and clamps	40.00
	Skip or bucket	40.00
	Nails.	10.00
(i)	Gasoline and oil for hoist and compressor engines	210.00

24.

I expect the project to take 7 months to complete.

(a) 1 month for setting up machinery and preliminary details and erecting small buildings.

(b) 4 months for sinking 5 ft by 8 ft. inclined shaft. I estimate an average of 2 ft. per day sinking.

(c) 1 month for stripping and surface cross cutting on Twentieth Century No. 2.

(d) 1 month additional time allowed for any difficulty which might arise causing temporary shut down or lost time.

I expect to spend $9579.00 on this project.

6/5/51

Sent out 8/27

8/20/51

Defense Minerals Administration

Review of Application for Exploration Assistance

J.H. East, Jr. Executive Officer
224 New Customhouse Bldg.
Denver 2, Colorado

Docket No. 1565-X

Commodity Tungsten

Total Amount $9579.50

75% Govt. Participation $7184.61

1. Name and Address of Applicant Marvin J. Pavlacky
Box 979, Globe, Arizona

2. Location of Property 15 miles south of Globe

3. Mineral or metal Tungsten & base metals Is it listed in Section 9 of MO-5?

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor ✓ Probably

c) None

d) Don't know—needs field examination ✓

e) Is there an alternative and favorable project?
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? _____

b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower Yes

b) Equipment and supplies Yes
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* Yes

d) Water (question 13)* Yes

e) Power (question 13)* Would require gas or diesel

Is a field check needed on any of these points? No

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* Check

Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described? Fairly

If not, are there sufficient data given so that you can describe the project? _____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work? Not adequate

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Yes

If not, what part of it is? _____

14. Exhibit E (question 23-c)*

a) Is it applicable? No

b) Sufficient data?

c) Reasonable?

d) Field check needed?

15. In your judgment, can the proposed work be done in the proposed time? Yes

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? No information on width of vein or samples. Perhaps more surface exploration would be more logical at this stage than sinking shaft to 210 feet. Please check.

Reviewed by: J. D. Ballard
T P Thayer
Geo P Holdren

Date 8/20/51

INT.-DUP. SEC., WASH., D.C. 99009

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 1565X

Date received 6-4-51

Participation

Marvin J. Pavlacky
Box 979
Globe, Arizona

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Date May 28, 1951

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $9579.50

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 15 miles south of Globe Arizona

Date of filing MF-100 May 8, 1951

DMA Docket Number, if available

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. NONE

7. If lessee, attach a copy of the lease and state if it is in good standing. Not applicable

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. See attached sheet

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)? See attached sheet

*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 See attached sheet

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. None

THE EXPLORATION

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

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 See attached sheet

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.

(Name of company)	By Marvin J. Pavlacky (Signature of authorized official)
May 28, 1951 (Date)	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

Answers to Questions as numbered
on MF- 103

Marvin J. Pavlacky
Box 979
Globe, Arizona

The Applicant

1 through 5 answered on MF- 100.
6. See MF-103
7. See MF-103
8. Assets
   1. $800.00 cash
   2. 75.00 hand mining tools and pipe fittings.
   3. 2800.00 Automobile
   4. 682.00 Furniture & fixtures.
   3557.00 Total

Liabilities
1. Lien on car by GMAC $432.00
2. Other debts 150.00
Total 582.00

I have no profit and loss statement.

9. I am prepared to invest $400.00 cash plus three fourths of my labor at the rate of $400.00 per month. The reason I say three fourths of my labor is because I will use $100.00 per month of the Government's share for my wages. This will be sufficient plus rental of $30.00 per month on pickup I intend to buy and own myself plus rental of $50.00 per month on hand tools which I now own.

The Property

10. (a) The real property involved includes three mining claims only.
Twentieth Century #2 has an open adit on it 15 ft. Deep.
Twentieth Century #6 " an inclined shaft 35 ft. deep.
" " #7 " An open adit on it 12 ft. deep.
(b) Legal description is, The three Twentieth Century claims #2, #6, #7, are unpatented mining claims of about 60 acres adjoining the "Mariana Mine" all located in the Globe Mining district, Gila county, 15 miles south of Globe, Arizona and recorded in book 48, at county recorders office, Globe, Arizona. Both (a) & (b) are the same area.

11. The present name of this property is "Twentieth Century Mine" The Twentieth Century number 7, was formerly known as "The Old Mill" formerly owned by C. Jerome Clark now deceased. The Twentieth Century number 2 also was formerly owned by C.Jerome Clark. Twentieth Century number 6, was owned by someone as there had been some work done when I located it several years ago. I never found any papers on it so I never found out who the former owner was.

12, 13, and 14 answered on MF-100

15. The ore could be hauled by truck to Globe, Arizona the shipping point and shipped by rail to one of the California ore buyers, or it could be shipped to a Government stockpile the location of which has not been designated yet. If the ore could not be handled by any of the above methods, a mill could be erected on the property and a concentrate made to Government specifications or other Tungsten users Specifications. With the Government guaranteeing the price of Tungsten for 5 years I do not anticipate any problem in selling Tungsten.

16. Answered on MF-100

Answers to Questions as numbered
on MF-103

Marvin J. Pavlacky
Box 979
Globe, Arizona
17 and 18 answered on MF-100
19, None

The Exploration

20. Tungsten is the principal mineral for which this exploration is conducted although gold-silver-lead-zinc may also be encountered during the exploration. The type of deposit is a fissure vein or lode.

21. I propose to extend the 35 ft. shaft an additional 175 ft. The shaft is in ore now and this additional sinking would make a total of 210 ft. of exploration downward to prove the ore bodies at depth. The last 10 ft. would be used for a pumping sump. The above work would be done under the matching principle plan in exploring for Tungsten. I would invest 25% and the Government would invest 75% under this plan. The above work would be done on the claim known as the "Twentieth Century No. 6", 85% of the total amount of Money for this project would be spent in sinking this shaft.

I further propose spending 15% of the total amount of Money for this project on the claim known as "Twentieth Century No. 2" this work would be in the form of stripping and otherwise exposing the outcrop with a Bulldozer or open cut adits across the vein for sampling and exploration.

Future developement could be determined after the planned exploration program is completed. This would also apply to Metallurgical investigations, except for regular sampling and assaying during exploration program.

7 months estimated time required to complete project.

22. Factors leading me to believe commercial ore bodies will be found on my property are, the length of the outcrops along the strike of the ore, out crops show favorable assays, also width of vein compares favorably with other veins on other properties in the neighborhood which have produced.

In answering question 7 & 12 on MF-100 giving the History of the adjoining Mariana Mine and also the other mines in the neighborhood and since several of these mines have produced I feel certain that with the showing I have on my property that the proposed project will prove this also to be a producer.

See last sheet for proposed openings and where assays were taken.

Sample list as follows, per short ton.
From my assay certificates.

Sample No.	1	Tungsten 1% WO_3		
" "	2	Tungsten 1.20% WO_3		
" "	3	Gold	$5.15	Silver $4.13
" "	4	Gold	1.93	Silver 8.26

I have made many chemical tests showing positive Tungsten content in the ore.

The requirements and costs

23. (a)	1 shaft miner	$15.00 per day for 4 months.	$1560.00
	1 mucker	12.00 per day for 7 months.	2184.00
	1 bookkeeper part time.	5.00 " " " 7 "	840.00
(b)	1 supervisor	3.00 " " " 7 "	700.00
	I intend to take active charge of this operation.		
(c)	Rehabilitation to existing 35 ft. shaft.		500.00
(d)	Temporary bachelor quarters at campsite.		448.75

The requirements and costs continued

23. Cont.

(d)	Small building for hoist house and for tools.	$100.00
(e)	Used compressor , Jack hammer and hose.	1000.00
(	Hoist	800.00
	Timber	800.00
	Air and water pipe	70.00
	Dynamite	250.00
(f)	I do not intend to rent anything, I do intend to buy everything I need with the aid of the Government.	
(g)	Rental value on hand tools.	50.00
	" " " pickup truck I intend to buy and own myself.	30.00
(h)	Hoist cable and clamps	40.00
	Skip or bucket.	40.00
	Nails.	10.00
(i)	Gasoline and oil for hoist and compressor engines.	210.00

24.

I expect the project to take 7 months to complete

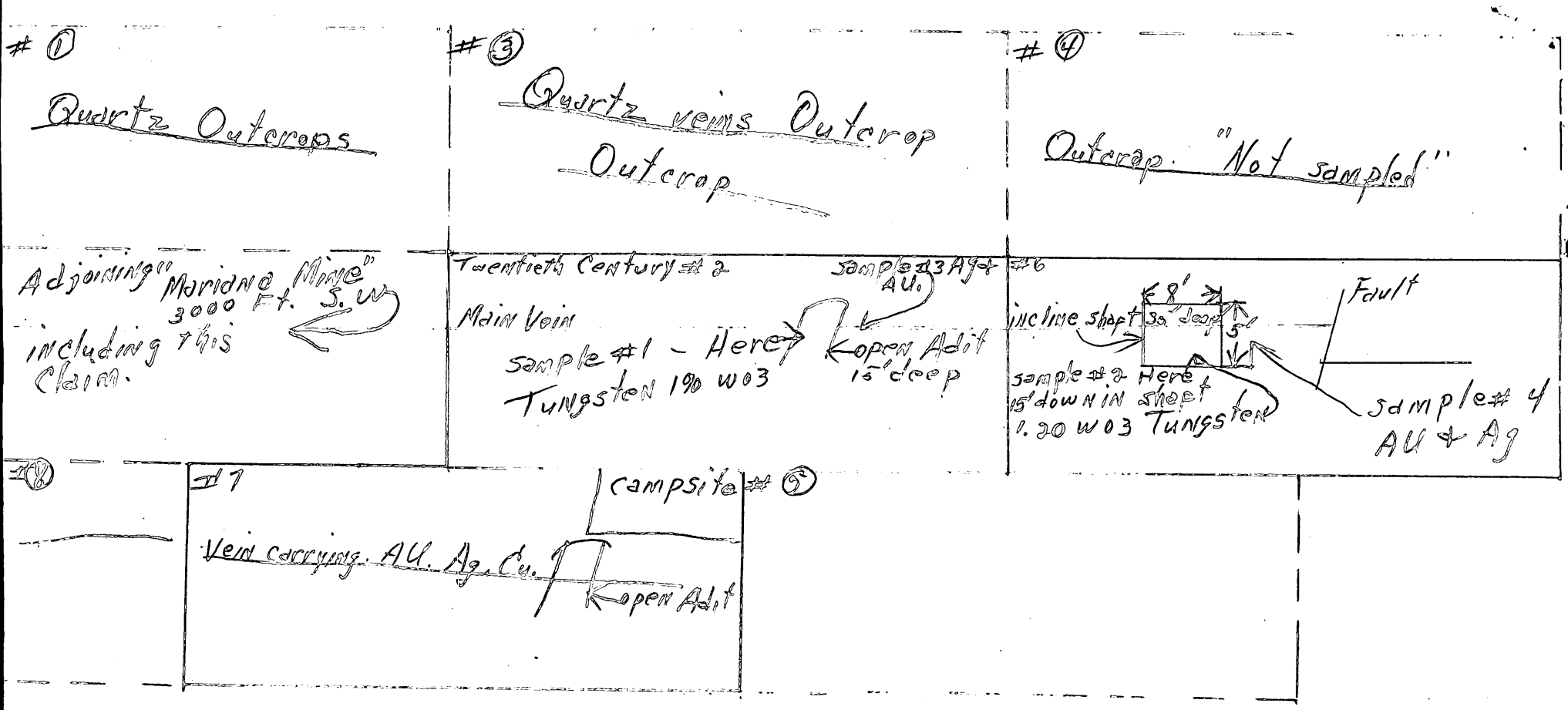
(a) 1 month for setting up machinery and preliminary details and erecting small buildings.

(b) 4 months for sinking 5ft by 8 ft. inclined shaft. I estimate an average of 2 ft. per day sinking.

(c) 1 month for stripping and surface cross cutting on Twentieth Century No. 2.

(d) 1 month additional time allowed for any difficulty which might arise causing temporary shut down or lost time.

I expect to spend $9579.00 on this project.



Twentieth Century No's 2; 6; & 7 Are main claims of this group.
Proposed work to be done, 85% at #6 inclined shaft.
15% of work to be done at #2 open adit.

Claims numbered twentieth century 1, 3, 4, 5, 8, will be located later and become part of this group.

Samples shown on Map are same samples used in Answering Question 22. ONMF-103.

400 Ft = 1 inch, on side lines and End lines of each full claim only.

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 1565X

Date received 6-4-51

Participation

Marvin J. Pavlacky
Box 979
Globe, Arizona

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Date May 28, 1951

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $9579.50

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 15 miles south of Globe Arizona

Date of filing MF-100 May 8, 1951

DMA Docket Number, if available

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. None
7. If lessee, attach a copy of the lease and state if it is in good standing. Not applicable

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. See attached sheet
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)? See attached sheet

*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 See attached sheet

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. None

THE EXPLORATION See attached sheet.

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 See attached sheet

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.

(Name of company)	By Marvin J. Pavlacky (Signature of authorized official)
May 28, 1951 (Date)	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

Answers to Questions as numbered
on MF- 103

Marvin J. Pavlacky
Box 979
Globe, Arizona

The Applicant

1 through 5 answered on MF- 100.
6. See MF-103
7. See MF-103
8. Assets
   1. $800.00 cash
   2. 75.00 hand mining tools and pipe fittings.
   3. 2800.00 Automobile
   4. 682.00 Furniture & fixtures.
   3557.00 Total

Liabilities
1. Lien on car by GMAC $432.00
2. Other debts 150.00
Total 582.00

I have no profit and loss statement.

9. I am prepared to invest $400.00 cash plus three fourths of my labor at the rate of $400.00 per month. The reason I say three fourths of my labor is because I will use $100.00 per month of the Government's share for my wages. This will be sufficient plus rental of $30.00 per month on pickup I intend to buy and own myself plus rental of $50.00 per month on hand tools which I now own.

The Property

10. (a) The real property involved includes three mining claims only.
    Twentieth Century #2 has an open adit on it 15 ft. Deep.
    Twentieth Century #6 " an inclined shaft 35 ft. deep.
    " " #7 " An open adit on it 12 ft. deep.
    (b) Legal description is, The three Twentieth Century claims #2, #6, #7, are unpatented mining claims of about 60 acres adjoining the "Mariana Mine" all located in the Globe Mining district, Gila county, 15 miles south of Globe, Arizona and recorded in book 48, at county recorders office, Globe, Arizona. Both (a) & (b) are the same area.
11. The present name of this property is "Twentieth Century Mine" The Twentieth Century number 7, was formerly known as "The Old Mill" formerly owned by C. Jerome Clark now deceased. The Twentieth Century number 2 also was formerly owned by C.Jerome Clark. Twentieth Century number 6, was owned by someone as there had been some work done when I located it several years ago. I never found any papers on it so I never found out who the former owner was.
12, 13, and 14 answered on MF-100
15. The ore could be hauled by truck to Globe, Arizona the shipping point and shipped by rail to one of the California ore buyers, or it could be shipped to a Government stockpile the location of which has not been designated yet. If the ore could not be handled by any of the above methods, a mill could be erected on the property and a concentrate made to Government specifications or other Tungsten users Specifications. With the Government guaranteeing the price of Tungsten for 5 years I do not anticipate any problem in selling Tungsten.
16. Answered on MF-100

Answers to Questions as numbered
on MF-103

Marvin J. Pavlacky
Box 979
Globe, Arizona

17 and 18 answered on MF-100
19. None

The Exploration

20. Tungsten is the principal mineral for which this exploration is conducted although gold-silver-Lead-Zinc may also be encountered during the exploration. The type of deposit is a fissure vein or lode.

21. I propose to extend the 35 ft. shaft an additional 175 ft. The shaft is in ore now and this additionalsinking would make a total of 210ft. of exploration downward to prove the ore bodies at depth. The last 10 ft. would be used for a pumping sump. The above work would be done under the matching principle plan in exploring for Tungsten. I would invest 25% and the Government would invest 75% under this plan. The above work would be done on the claim known as the "Twentieth Century No. 6" 85% of the total amount of Money for this project would be spent in sinking this shaft.

I further propose spending 15% of the total amount of money for this project on the claim known as "Twentieth Century No.2" this work would be in the form of stripping and otherwise exposing the outcrop with a Bulldozer or open cut adits across the vein for sampling and exploration.

Future developement could be determined after the planned exploration program is completed. This would also apply to Metallurgical investigations, except for regular sampling and assaying during exploration program.

7months estimated time required to complete project.

22. Factors leading me to believe commercial ore bodies will be found on my property are, the length of the outcrops along the strike of the ore,out crops show favorable assays, also width of vein compares favorably with other veins on other properties in the neighborhood which have produced.

In answering question 7 & 12 on MF-100 giving the History of the Adjoining Mariana Mine and also the other mines in the Neighborhood and since several of these mines have produced I feel certain that with the showing I have on my property that the proposed project will prove this also to be a producer.

See last sheet for proposed openings and where assays were taken.

Sample list as follows, per short ton.
From my assay certificates.
Sample No. 1 Tungsten 1% WO3
" No. 2 Tungsten 1.20% WO3
" " 3 Gold $5.15 Silver $4.13
Sample " 4 Gold $1.93 Silver $8.26
I have made many chemical tests showing positive Tungsten content in the ore.

The requirements and costs

23. (a)	1 shaft miner	$15.00 per day for 4 months.	$1560.00
	1 mucker	12.00 per day for 7 months.	2184.00
	1 bookkeeper part time.	5.00 per day for 7 months.	840.00
(b)	1 supervisor	3.00 per day for 7 months.	700.00
I intend to take active charge of this operation.			
(c)	Rehabilitation to existing 35 ft. shaft.		500.00
(d)	Temporary bachelor quarters at campsite.		448.75

23. Cont.

(d)	Small building for hoist house and for tools.	$100.00
(e)	Used compressor, Jack hammer and hose.	1000.00
	Hoist	800.00
	Timber	800.00
	Air and water pipe	70.00
	Dynamite	250.00
(f)	I do not intend to rent anything, I do intend tobuy everything I need with the aid of the Government.	
(g)	Rental value on hand tools	50.00
	" " " pickup truck I intend to buy and own myself.	30.00
(h)	Hoist cable and clamps	40.00
	Skip or bucket	40.00
	Nails.	10.00
(i)	Gasoline and oil for hoist and compressor engines	210.00

24.

I expect the project to take 7 months to complete.

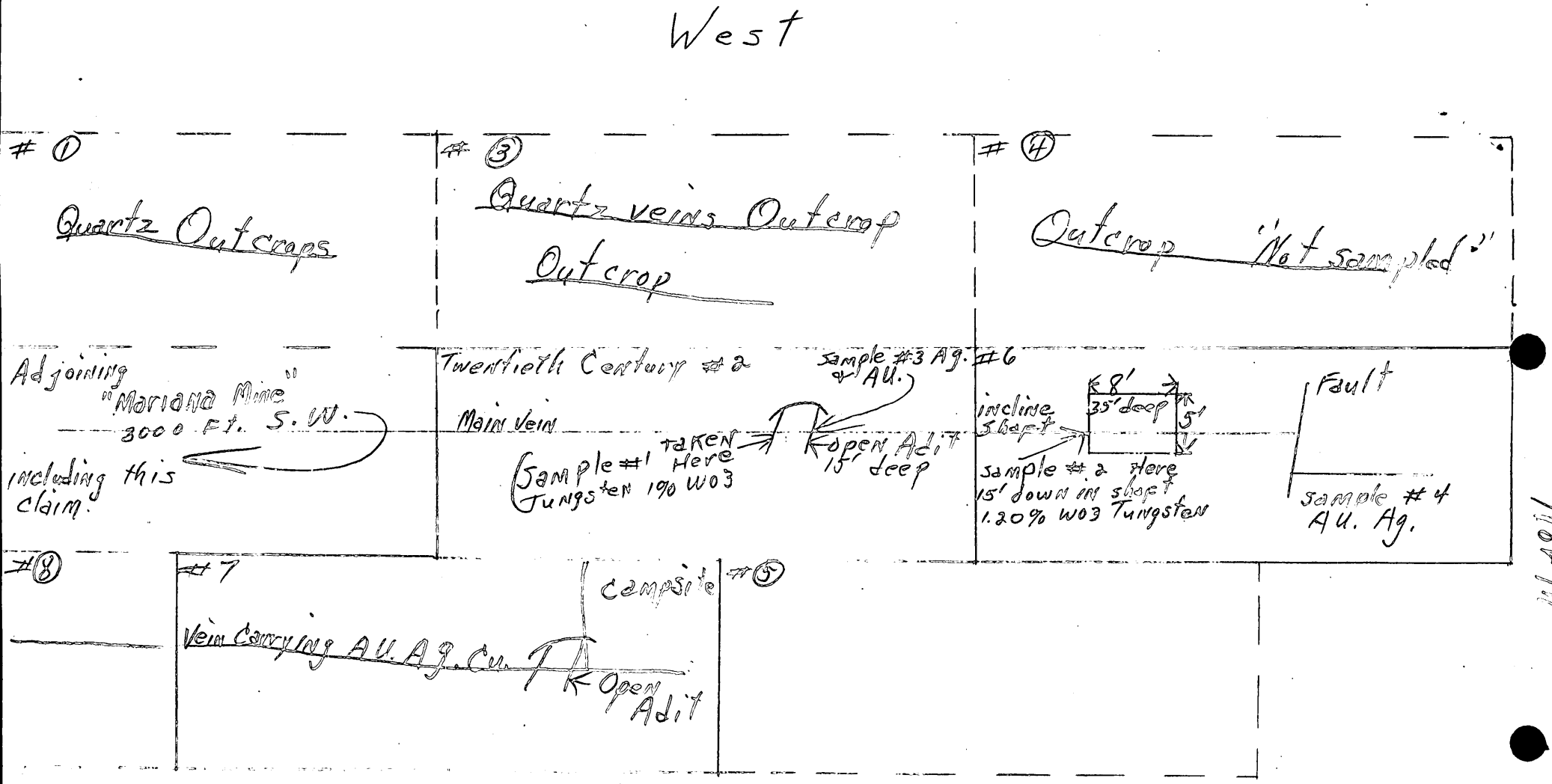
(a) 1 month for setting up machinery and preliminary details and erecting smal buildings.

(b) 4 months for sinking 5 ft by 8 ft. inclined shaft. I estimate an average of 2 ft. per day sinking.

(c) 1 month for stripping and surface cross cutting on Twentieth Century No. 2.

(d) 1 month additional time allowed for any difficulty which might arise causing temporary shut down or lost time.

I expect to spend $9579.00 on this project.



Twentieth Century No's 2; 6; & 7 are main claims of this group
Proposed work to be done, 85% at #6 inclined shaft.
15% of work to be done at #2 open adit.

Claims numbered twentieth century 1, 3, 4, 5, & 8 will be located later and become part of this group.

Samples shown on Map are same samples used in answering question 22 on MF-103.
400ft. = 1 inch, on side lines and endlines of each full claim only.

Nov 4th

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. dmal 1565 X

Date received 6-4-51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 4 - 1951
LANDON F. STROBEL
Executive Secretary

Name and address of applicant

Marvin J. Pavlacky
Box 979
Globe, Arizona

Date May 28, 1951

FILL IN THIS BLOCK

Date of application May 28, 1951

Estimated cost $9579.50

Mineral or metal Tungsten

Percentage of Government participation 75%

Location of mine 15 miles south of Globe Arizona

Date of filing MF-100 May 8, 1951

DMA Docket Number, if available

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. NONE
7. If lessee, attach a copy of the lease and state if it is in good standing. Not applicable

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. See attached sheet
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)? See attached sheet

*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

See attached sheet

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. None

THE EXPLORATION

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

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

See attached sheet

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.

(Name of company)	By Marvin J. Pavlacky. (Signature of authorized official)
May 28, 1951 (Date)	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

Answers to Questions as numbered
on MF-103

Marvin J. Pavlacky
Box 979
Globe, Arizona

The Applicant

1 through 5 answered on MF-100.
6. See MF-100
7. See MF-100
8. Assets

1.	$ 800.00	cash
2.	75.00	hand mining tools
3.	2000.00	automobile
4.	682.00	furniture and fixtures
	3557.00	Total

Liabilities

1. Lien on car by GMAC	$432.00
2. Other debts.	150.00
Total	582.00

I have not profit and loss statement.

9. I am prepared to invest $400.00 cash plus three fourths of my labor at the rate of $400.00 per month. The reason I say three fourths of my labor is because I will use $100.00 per month of the Government's share for my wages. This will be sufficient plus rental of $30.00 per month on pickup I intend to buy and own myself plus rental of $50.00 per month on hand tools which I now own.

The Property

10. (a) The real property involved includes three mining claims only.
Twentieth Century #2 has an open adit on it 15 ft. deep.
" " #6 " " inclined shaft 35 ft. deep.
" " #7 " " open adit on it 12 ft. deep.
(b) Legal description is, the three Twentieth Century claims #2, #6, #7, are unpatented mining claims of about 60 acres adjoining the "Mariana Mine" all located in the Globe Mining district, Gila county, 15 miles south of Globe, Arizona and recorded in book 48, at county recorders office, Globe, Arizona. Both (a) and (b) are the same area.

11. The present name of this property is "Twentieth Century Mine"
The Twentieth Century number 7. was formerly known as "The Old Mill" formerly owned by C Jerome Clark now deceased.
The Twentieth Century number 2 also was formerly owned by C. Jerome Clark. Twnetieth Century number 6, was owned by someone as there had been some work done when I located it several years ago. I never found any papers on it so I never found out who the former owner was.

12, 13, and 14 answered on MF-100

15. The ore could be hauled by truck to Globe, Arizona the shipping point and shipped by rail to one of the California ore buyers, or it could be shipped to a Government stockpile the location of which has not been designated yet. If the ore could not be handled by any of the above methods, a mill could be erected on the property and a concentrate made to Government specifications or other Tungsten users specifications. With the Government guaranteeing the price of Tungsten for 5 years I do not anticipate any problem in selling Tungsten.

16. Answered on MF-100

Answers to Questions as numbered
on MF-103

Marvin J. Pavlacky
Box 979
Globe, Arizona

17 and 18 answered on MF-100
19. None

The Exploration

20. Tungsten is the principal mineral for which this exploration is conducted although gold-silver-Lead-Zinc may also be encountered during the exploration. The type of deposit is a fissure vein or lode.

21. I propose to extend the 35 ft. shaft an additional 175 ft. The shaft is in ore now and this additionalsinking would make a total of 210ft. of exploration downward to prove the ore bodies at depth. The last 10 ft. would be used for a pumping sump. The above work would be done under the matching principle plan in exploring for Tungsten. I would invest 25% and the Government would invest 75% under this plan. The above work would be done on the claim known as the "Twentieth Century No. 6" 85% of the total amount of Money for this project would be spent in sinking this shaft.

I further propose spending 15% of the total amount of money for this project on the claim known as "Twentieth Century No.2" this work would be in the form of stripping and otherwise exposing the outcrop with a Bulldozer or open cut adits across the vein for sampling and exploration.

Future developement could be determined after the planned exploration program is completed. This would also apply to Metallurgical investigations, except for regular sampling and assaying during exploration program.

7months estimated time required to complete project.

22. Factors leading me to believe commercial ore bodies will be found on my property are, the length of the outcrops along the strike of the ore,out crops show favorable assays, also width of vein compares favorably with other veins on other properties in the neighborhood which have produced.

In answering question 7 & 12 on MF-100 giving the History of the Adjoining Mariana Mine and also the other mines in the Neighborhood and since several of these mines have produced I feel certain that with the showing I have on my property that the proposed project will prove this also to be a producer.

See last sheet for proposed openings and where assays were taken.

Sample list as follows, per short ton.
From my assay certificates.
Sample No. 1 Tungsten 1% WO3
" No. 2 Tungsten 1.20% WO3
" " 3 Gold $5.15 Silver $4.13
Sample " 4 Gold $1.93 Silver $8.26
I have made many chemical tests showing positive Tungsten content in the ore.

The requirements and costs

23. (a)	1 shaft miner	$15.00 per day for 4 months.	$1560.00
	1 mucker	12.00 per day for 7 months.	2184.00
	1 bookkeeper part time.	5.00 per day for 7 months.	840.00
(b)	1 supervisor	3.00 per day for 7 months.	700.00

I intend to take active charge of this operation.

(c)	Rehabilitation to existing 35 ft. shaft.	500.00
(d)	Temporary bachelor quarters at campsite.	448.75

The requirements and costs continued

23. Cont.

(d)	Small building for hoist house and for tools.	$100.00
(e)	Used compressor , Jack hammer and hose.	1000.00
(	Hoist	800.00
	Timber	800.00
	~~air~~ Air and water pipe	70.00
	Dynamite	250.00
(f)	I do not intend to rent anything, I do intend to buy everything I need with the aid of the Government.	
(g)	Rental value on hand tools.	50.00
	" " " pickup truck I intend to buy and own myself.	30.00
(h)	Hoist cable and clamps	40.00
	Skip or bucket.	40.00
	Nails.	10.00
(i)	Gasoline and oil for hoist and compressor engines.	210.00

24.

I expect the project to take 7 months to complete

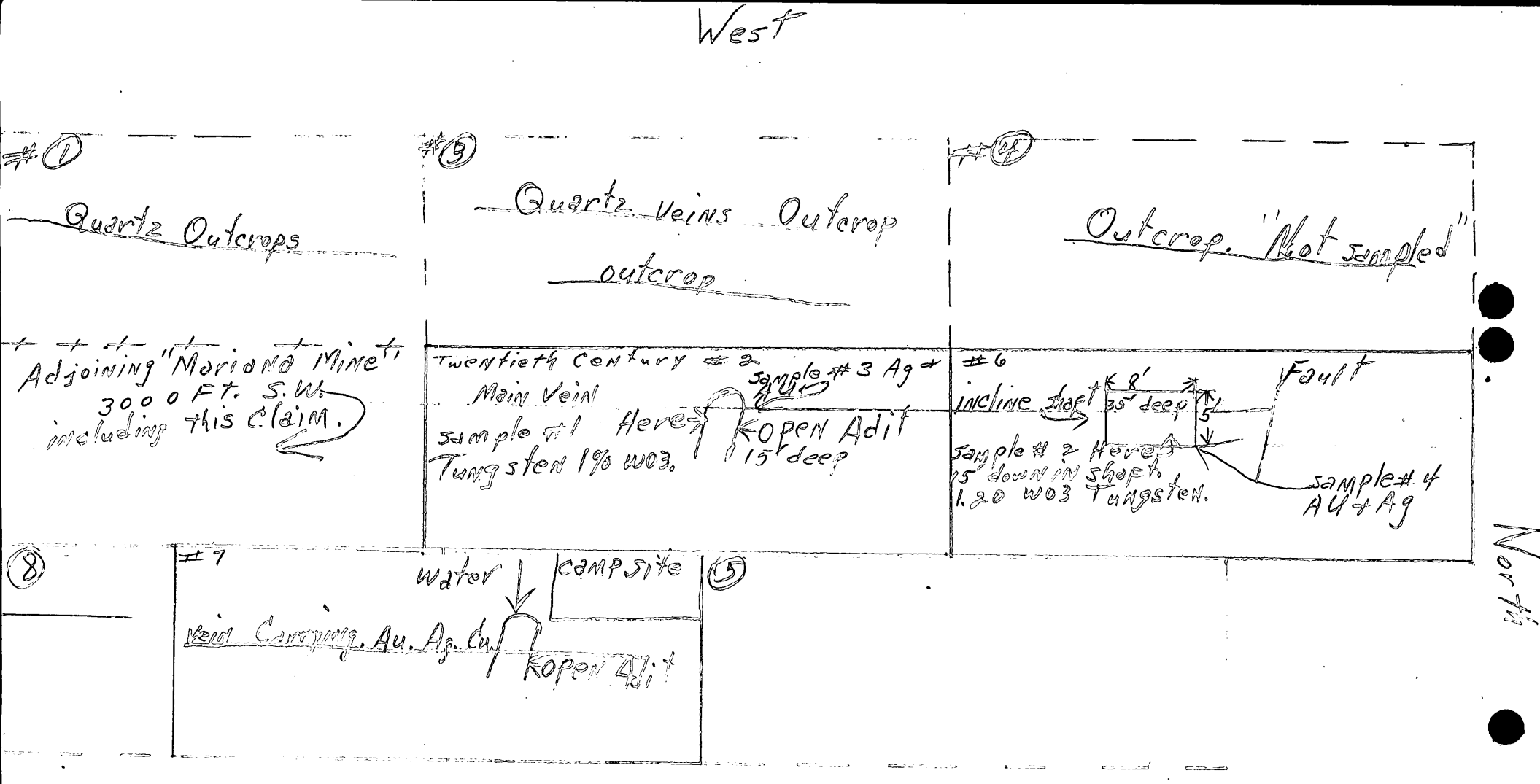
(a) 1 month for setting up machinery and preliminary details and erecting small buildings.

(b) 4 months for sinking ~~f~~ 5ft by 8 ft. inclined shaft. I estimate an average of 2 ft. per day sinking.

(c) 1 month for stripping and surface cross cutting on Twentieth Century No. 2.

(d) 1 month additional time allowed for any difficulty which might arise, causing temporary shut down or lost time.

I expect to spend $9579.00 on this project.



Twentieth Century No's 2 #6 #7 Are main claims of this group
Proposed work to be done, 85% at #6 inclined shaft
15% of work to be done at #2 Open Adit.

claims Numbered twentieth Century 0-3-4 5-8 will be located later and become part of this group.

Samples shown on Map are same samples used in Answering Question 22 ON MF-103.

400 Ft. = 1 inch, on sidelines and End lines of each full claim only.

ORIGINAL.

Globe, Arizona

May 8, 1951

REGIONAL DIRECTOR'S
OFFICE
REGION IV
MAY 11 1951
BUREAU OF MINES
DENVER, COLORADO

Bureau Of Mines
224 New Custom House Building
Denver 2, Colorado

Dear Sirs:

I am enclosing four copies of form MF-100 and attached sheets with information and Technical data for use under the Defense Production act of 1950.

I am interested mainly in being assigned a serial number so that I can obtain priorities for allocation of mining machinery and supplies and other Government assistance if I need it.

My plans are to apply for a loan on my Tungsten property under the matching principles plan, I will send in the appropiate forms later.

Yours truly,

Marvin J. Pavlacky.

Box 979

Globe, Arizona

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

General Technical Data numbered and
Answered in the same order as on Form MF-100

1. Materials produced:
   (a) Chief product is Tungsten, although none produced as yet because this is a new mine location.
   (b) Zinc, Lead, Gold and Silver.
2. The name of this mine is "Twentieth Century Mine" It is an Underground metal mine, but future exploration can only determine this exactly.
   (a) 35 ft. inclined shaft.
   (b) None
   (c) 30 ft. of adits.
   (d) Since this property is in the prospect stage, this accounts for the small amount of Linear feet of workings.
   The workings are not flooded and there is no pumping problem.
   I am unable to answer what the productive capacity is.
3. For each operation listed above supply the following:
   (a) The property is located 15 miles south of Globe, Arizona which is the shipping point.
   (b) The Globe Mining District.
   (c) I do not know.
   (d) Gila, Arizona
4. (A) Limited part time exploration work, testing and sampling at this time by Marvin J. Pavlacky, owner.
   (b) I am working this property as owner.
5. Answered on form MF-100
6. Marvin J. Pavlacky is the owner and manager of this property and I have had 8 years under ground and open pit mining experience. I have had 1 years experience in milling of ores, working as shift boss and foreman in mills. I have leased and operated small mining properties.
7. **History:**
   (a) All exploration done is answered in Qiestion 2 and no. 5
   The reason for suspension of exploration and developement work is due to lack of financing and low metal prices untill just recently.
   (b) The Mariana Mine formerly known as Gila-Pinal mines Company in 1898 and later the Bobtail Mine has produced many carloads of direct shipping ore to the El Paso smelter and later to the International smelter at Miami, Arizona. Values were in Gold Silver and Copper, Lead Zinc and Tungsten. My property is located on the extension veins of this above mentioned property.
   In the neighborhood Mrs Brice Westlake recently sold her Tungsten property to H.B. Piggott of San Francisco, This property has produced small amounts of Tungsten. In an article in the Phoenix Gazette dated May 2, 1951 H.B.Piggott stated as a result of redent tests the above mentioned property was one of the nations greatest potential sources of Tungsten. In the same article at Phoenix, Charles H. Dunning, Director of the State Department of Mineral resources, said. We have always thought the Pinal Mountains were a good Tungsten Prospect.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

7. History Cont. part (b)
   (3) Another property in the neighborhood, is known as the Sampsel Mine which has produced Tungsten concentrates and still is a potential producer.
   (4) There are many small to medium sized properties in the vicinity of my property which have produced Gold, Silver, Lead, Zinc and Copper, also within a few miles are such Huge producers as Miami Copper Co. and Inspiration Copper Co.
   (c) There are no private reports that apply to this application. I do want to state that from my own examinations of other mines adjoining my property that the outcrops of veins and what work has been done, my porperty compares favorably.

8, 9, and 10 not applicable.

11. Answered on form MF-100

12. Ore or Mineral reserves.
   (a) There are two ore zones showing on the main vein of 175 ft. and 200 ft. long on the surface and from a few inches to 5 ft.wide. There are at least two other veins on the property with commercial possibilities but they have had less testing and work done on them.

   In writing of the Geology of the adjoining Mariana Mine formerly known as the Bobtail Mine. F.L. Ransome of the U.S. Geological Survey refers to the Bobtail Mine in the Globe Folio No. 111, on pages 14 and 15: " As examples of lode deposits, may be cited the Summit, Cola and Goodwin and the Bobtail lodes, carrying sulphides in Pinal Schist."

   The mariana Mine formerly known as the Bobtail Mine adjoins my property and I believe my claims are on the extension of the same vein system as the Mariana Mine.

   The Geology in general from my own study on my claims is; the veins are fissure veins and the valuable minerals are Tungsten Gold, Silver, Copper, Zinc and Lead. The country rock which encases the veins are Rhyolite and Pinal Schist and in some places it is Schist on both walls. There is a large Granite area on the eastern edge of the property and is within a few hundred feet of the main vein.

   (b) Samples were cut across the main vein and an average of assays are shown below and Gross value shown on form MF-100. Tungsten 1.10% WO3. Gold $2.94 Silver $4.34 per short ton. Probable or mineral reserve estimated from answer (a) Question No. 12.

13. Access roads:
   (a) The roads are secondary dirt roads and it is 15 miles to Globe, Arizona the shipping point, resident and supply points.

14. Water Supply:
   (a) Source of water is one of the mine locations and it is sufficient for all seasons of the year but will need some additional developement for milling purposes.

15. Power:
   (a) No power used at present. Diesel or Gasoline engines would have to be used.

16. Labor:
   Not Applicable.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona

May 8, 1951

17. Equipment and facilities:
The only equipment I have at the present is hand tools. I plan on buying an air compressor, hoist and machines for my share of a loan under the Matching Principle plan providing the loan goes through.

18. Particular conditions I want to mention are, in answering Question no. 12,(2)(b) I want to make it clear I have no tonnage proved or blocked out, the 2000 short tons is estimated ore.

The Gross value per ton is rather high and it is quite probable that this figure will be considerably lower when the mine comes into production.

The byproducts Lead, Zinc and Copper have not been assayed enough to get an average value. I believe with further testing and assaying these metals will prove worth saving.

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 - 1565X

Date received 7/30/51

Marvin J. Pavlacky
Box 979
Globe, Arizona

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
LAMBERT F. STROBEL
Executive Secretary

Name and address of applicant

Date May 8, 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,~~ (4) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).
   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - [x] Owner.
   - [ ] Lessee.
   - [ ] Contractor.
5. Number of years in production None
   If not in production or operation, estimated date when production will begin To be determined when Exploration work is completed
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: Common (e)	Number of Shares Held in Applicant Corporation: Preferred (f)	Life Insurance Carried for Benefit of Applicant: Amount (g)	Life Insurance Carried for Benefit of Applicant: Net Cash Surrender Value After Loans (h)
Not Applicable							
	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 Not Applicable	$	$	$		
Preferred stock Not Applicable	$	$	$		

*Indicate period covered.

10. Production:

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

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Since the mine has not produced this does not apply

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)	2000	See Attached sheet	$85.28	90%	Not known

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Marvin J. Pavlacky
(Signature of authorized official)

May 8, 1951
(Date)

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.

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

ORIGINAL.

Globe, Arizona

May 8, 1951

Bureau Of Mines

224 New Custom House Building

Denver 2, Colorado

Dear Sirs:

I am enclosing four copies of form MF-100 and attached sheets with information and Technical data for use under the Defense Production act of 1950.

I am interested mainly in being assigned a serial number so that I can obtain priorities for allocation of mining machinery and supplies and other Government assistance if I need it.

My plans are to apply for a loan on my Tungsten property under the matching principle plan, I will send in the appropiate forms later.

Yours truly,

Marvin J. Pavlacky

Box 979

Globe, Arizona

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

General Technical Data numbered and answered in the same order as on Form MF-100

1. Materials Produced:
   (a) Chief products is Tungsten, although none produced as yet because this is a new mine location.
   (b) Zinc, Lead, Gold and Silver.
2. The name of this mine is "Twentieth Century Mine" It is an Underground metal mine, but future exploration can only determine this exactly.
   (a) 35 ft. inclined shaft.
   (b) None
   (c) 30 ft. of adits.
   (d) Since this property is in the prospect stage, this accounts for the small amount of Linear feet of workings.
   The workings are not flooded and there is no pumping problem.
   I am unable to answer what the productive capacity is.
3. For each operation listed above supply the following:
   (a) The property is located 15 miles south of Globe, Arizona which is the shipping point.
   (b) The Globe Mining District.
   (c) I do not know.
   (d) Gila, Arizona
4. (A) Limited part time exploration work, testing and sampling at this time by Marvin J. Pavlacky, owner.
   (b) I am working this property as owner.
5. Answered on form MF-100
6. Marvin J. Pavlacky is the owner and manager of this property and I have had 8 years under ground and open pit mining experience. I have had 1 years experience in milling of ores, working as shift boss and foreman in mills. I have leased and operated small mining properties.
7. History:
   (a) All exploration done is answered in Question 2 and no. 5
   The reason for suspension of exploration and developement work is due to lack of financing and low metal prices until just recently.
   (b) The Mariana Mine formerly known as Gila-Pinal mines Company in 1898 and later the Bobtail Mine has produced many carloads of direct shipping ore to the EL Paso smelter and later to the International smelter at Miami, Arizona. Values were in Gold Silver and Copper, Lead Zinc and Tungsten. My property is located on the extension veins of the above mentioned property.
   In the neighborhood Mrs Brice Westlake recently sold her Tungsten property to H.B. Piggott of San Francisco. This property has produced small amounts of Tungsten. In an article in the Phoenix Gazette dated May 2, 1951 H.B. Piggott stated as a result of recent tests the above mentioned property was one of the nations greatest potential sources of Tungsten. In the Same article at Phoenix, Charles H. Dunning, Director of the State Department of Mineral resources, said, We have always thought the Pinal Mountains were a good Tungsten Prospect.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

7. History Cont. part (b)
   (3) Another property in the neighborhood, is known as the Sampsel Mine which has produced Tungsten concentrates and still is a potential producer.
   (4) There are many small to medium sized properties in the vicinity of my property which have produced Gold, Silver, Lead, Zinc and Copper, also within a few miles are such Huge producers as Miami Copper Co. and Inspiration Copper Co.
   (c) There are no private reports that apply to this application. I do want to state that from my own examinations of other mines adjoining my property that the outcrops of veins and what work has been done, my property compares favorably .

8, 9, and 10, not applicable.

11, Answered on form MF-100

12, Ore or Mineral reserves.
   (a) There are two ore zones showing on the main vein of 175 and 200 ft. long on the surface and from a few inches to 5 ft. wide. There are at least two other veins on the property with commercial possibilities but they have had less testing and work done on them.

In writing of the Geology of the adjoining Mariana Mine formerly known as the Bobtail Mine. F.L. Ransome of the U.S. Geological Survey refers to the Bobtail Mine in the Globe Folio No. 111, on pages 14 and 15: " AS examples of lode deposits, may be cited the Summit, Cola and Goodwin and the Bobtail lodes, carrying sulphides in Pinal Schist."

The Mariana Mine formerly known as the Bobtail Mine adjoins my property and I believe my claims are on the extension of the same vein system as the Mariana Mine.

The Geology in general from my own study on my claims is; the veins ARE fissure veins and the valuable minerals are Tungsten Gold, Silver, Copper, Zinc and Lead. The country rock which encases the veins are Rhyolite and Pinal Schist and in some places it is Schist on both walls. There is a large Granite area on the eastern edge of the property and is within a few hundred feet of the main vein.

   (b) Samples were cut across the main vein and an average of assays are shown below and Gross value shown on form MF-100. Tungsten 1.10 % WO_3. Gold $2.94 Silver $4.34 per short ton. Probable or mineral reserve estimated from answer (a) Question No. 12.

13. Access roads:
   (a) The roads are secondary dirt roads and it is 15 miles to Globe, Arizona the shipping point, resident and supply points.

14. Water Supply:
   (a) Source of water is one of the mine locations and it is sufficient for all seasons of the year but will need some additional developement for milling purposes.

15. Power:
   (a) No power used at present. Diesel or Gasoline engines would have to be used.

16. Labor:
   Not Applicable.

Marvin J. Pavlacky
Box 979
Globe, Arizona

Globe, Arizona
May 8, 1951

17. Equipment and facilities:
The only equipment I have at the present is hand tools. I plan on buying an air compressor, hoist and machines for my share of a loan under the Matching Principle plan providing the loan goes through.

18. Particular conditions I want to mention are, in answering Question no. 12, (2) (b) I want to make it clear I have no tonnage proved or blocked out, the 2000 short tons is estimated ore.

The Gross value per ton is rather high and it is quite probable that this figure will be considerably lower when the mine comes into production.

The byproducts Lead, Zinc and Copper have not been assayed enough to get an average value. I believe with further testing and assaying these metals will prove worth saving.

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-1565X

Date received 7/30/51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 30 1951
LINDON F. CRISSEL
Executive Secretary

Marvin J. Pavlacky
Box 979
Globe, Arizona

Name and address of applicant

Date May 8, 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 (5) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

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

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

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☒ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production None

   If not in production or operation, estimated date when production will begin To be determined when Exploration work is completed
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)
Not Applicable							
	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 Not Applicable	$	$	$		
Preferred stock Not Applicable	$	$	$		

*Indicate period covered.

10. Production:

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

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change. Since the mine has not produced this does not apply

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)		See Attached			
Indicated (probable)	2000	sheet	$85.28	90%	Not known

(*c*) If placer:

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

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

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

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

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

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

13. Access Roads:

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

14. Water Supply:

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

15. Power:

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

16. Labor:

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

17. Equipment and Facilities:

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

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

CERTIFICATION

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

(Name of company)

By Marvin J. Pavlacky
(Signature of authorized official)

May 8, 1951
(Date)

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.

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