DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2053

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 LOAN

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

To:	CODE 340 ~~Ferro Alloys Br.~~	Date	9-10-51
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CONTROLLED DOCUMENT

INT.-DUP. SEC., WASH., D.C. 98868

FEB 12 1952

Mr. G. E. Williams
The Pines
Williams Resorts, Inc.
Bass Lake, California

Re: Docket No. DMA 2051X - Tungsten
Fish Creek Mountain Deposits
Madera County, California

Dear Mr. Williams:

Your application for aid for an exploration project and other data relating to your application available to us in Washington have been carefully reviewed.

This information, while noting a small amount of marginal ore on your property, indicates that, geologically, there is little probability of making a significant mineral discovery. We regret, therefore, to inform you that your application is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:ls
2/5/52

Copy to: Adm. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team, Region 3
G. G. Gentry
G. C. Selfridge

February 5, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Denial of exploration project in the amount of $5,000.00
Docket No. DMA 2053 - Tungsten
Fish Creek Mountain Deposits, Madera County, California

The subject application was denied by this Division for the following reasons:

1. There is little probability, geologically, of making a significant mineral discovery.

2. The deposits are narrow and widely separated, and of relatively low grade, and constitute only a small tonnage of inferred ore.

3. The applicant does not legally control the property.

4. The deposits contain no measured or indicated ore, and because of poor exposures, it is not possible to make other than a crude estimate of the tonnage and grade of inferred ore.

5. The property is entirely an undeveloped prospect and apparently the grade of the ore exposures has been determined entirely by a mineralight estimate.

6. It appears doubtful that the applicant could mine and mill such small scattered deposits at a profit.

GGGentry:ls
2/5/52

Copy to: Admn. Reading File
Docket
G. G. Gentry
G. C. Selfridge

G. C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

I + FE file

George Selfridge, DMEA

January 23, 1952

D. M. Lemmon, U.S.G.S.

Field Report
Tungsten prospects near Fine Gold
Madera County, California
(Fish Creek Mountain Nos. 1, 2, 3,
Titcomb Nos. 1, 2, and Church Ranch)
Application of G. E. Williams and J. M. Huston

DMEA 2053 - Tungsten

Field examination was made November 29, 1951 by W. P. Irwin and H. W. Imholz of the Geological Survey. After examining the 6 prospects involved in the application, the geologists concluded that the deposits were small, narrow, and of low grade considering their size and distance from a concentrator. The applicants do not hold valid leases on any of the claims.

The field team recommends that the application be denied, a recommendation in which I concur.

DM Lemmon

DMLemmon:gt

Copies to: Director's reading file
Branch reading file

1 & FE d

George Selfridge, DMEA

January 23, 1952

D. M. Lemmon, U.S.G.S.

Field Report
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(Fish Creek Mountain Nos. 1, 2, 3,
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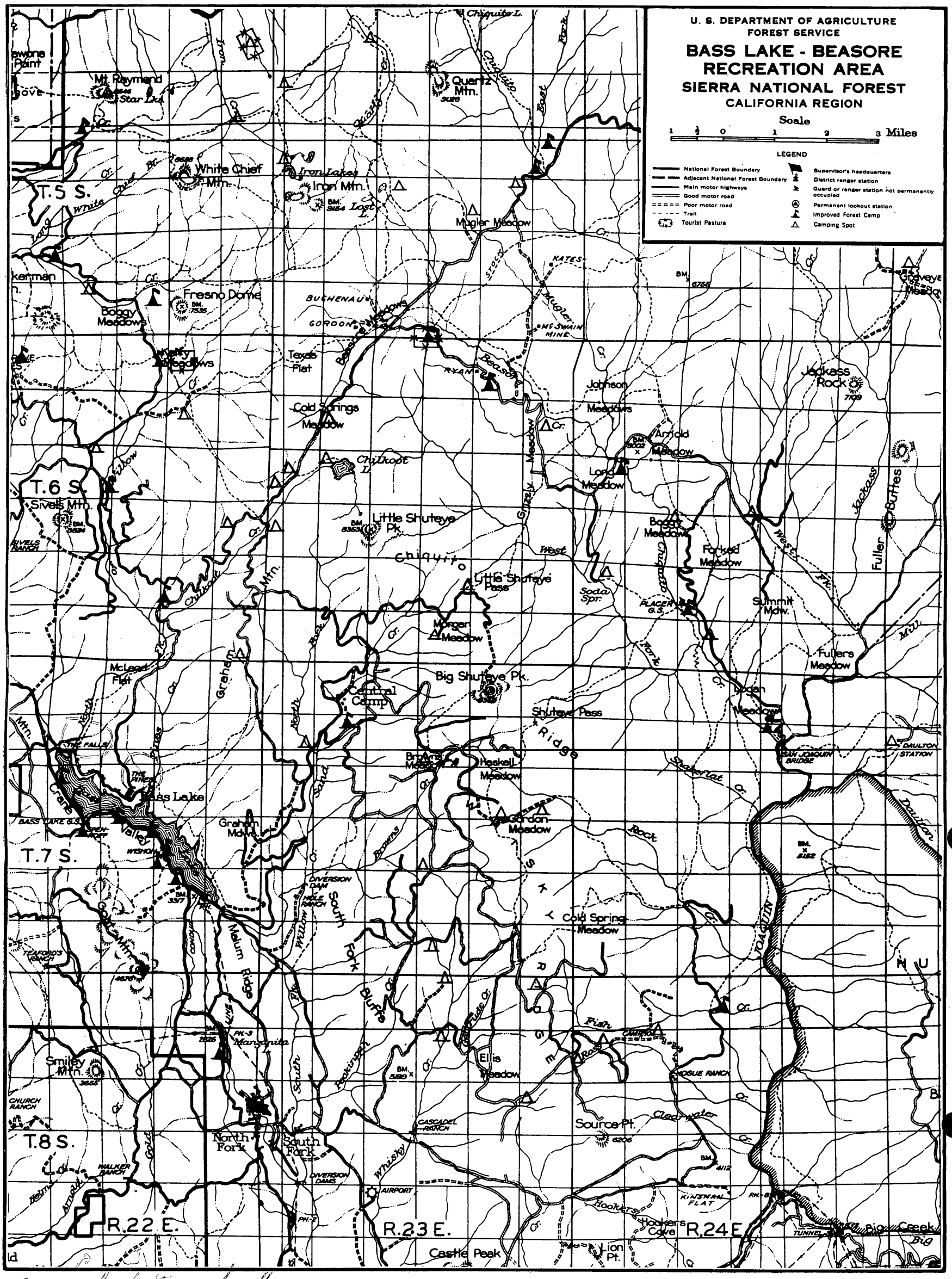
DMLemmon:gt

Copies to: Director's reading file
Branch reading file



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FILE COPY
SURNAME:

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

FEB 12 1952

Mr. G. E. Williams
The Pines
Williams Resorts, Inc.
Bass Lake, California

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Madera County, California

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Sincerely yours,

C. O. Mittendorf (for)

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:ls
2/5/52

Copy to: Admn. Reading File
Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team, Region 3
G. G. Gentry
G. C. Selfridge

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

February 5, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Denial of exploration project in the amount of $5,000.00
Docket No. DMA 2053 - Tungsten
Fish Creek Mountain Deposits, Madera County, California

The subject application was denied by this Division for the following reasons:

1. There is little probability, geologically, of making a significant mineral discovery.

2. The deposits are narrow and widely separated, and of relatively low grade, and constitute only a small tonnage of inferred ore.

3. The applicant does not legally control the property.

4. The deposits contain no measured or indicated ore, and because of poor exposures, it is not possible to make other than a crude estimate of the tonnage and grade of inferred ore.

5. The property is entirely an undeveloped prospect and apparently the grade of the ore exposures has been determined entirely by a mineralight estimate.

6. It appears doubtful that the applicant could mine and mill such small scattered deposits at a profit.

G. C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

FILE COPY
SURNAME:

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

February 5, 1952

Memorandum

To: Acting Administrator, Defense Minerals Exploration Administration

From: Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration

Subject: Denial of exploration project in the amount of $5,000.00
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George C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

GGGentry:ls
2/18/52

Copy to: Admn. Reading File
Docket
G. G. Gentry
G. C. Selfridge

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with complete file from docket

4/24 ØB

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George Selfridge, DMEA DATE: January 23, 1952

FROM : D. M. Lemmon, U.S.G.S.

SUBJECT: Field Report DMEA 2053 - Tungsten
Tungsten prospects near Fine Gold
Madera County, California
(Fish Creek Mountain Nos. 1, 2, 3,
Titcomb Nos. 1, 2, and Church Ranch)
Application of G. E. Williams and J. M. Huston

Field examination was made November 29, 1951 by W. P. Irwin and H. W. Imholz of the Geological Survey. After examining the 6 prospects involved in the application, the geologists concluded that the deposits were small, narrow, and of low grade considering their size and distance from a concentrator. The applicants do not hold valid leases on any of the claims.

The field team recommends that the application be denied, a recommendation in which I concur.

Dwight M Lemmon

17 in I-7837

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 23 1952

2053

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 28 1952

G E. Williams.
Area is South of town
of Fine Gold in
So. Mother Lode area, Calif.

Mr. Geehan —
~~D.L.~~ —

Herewith application with Field Team
Report. - and USGS summary —

T. P. T Requested field team Rept on 9/26
because of lack of data in his files.

Please give us your reaction ~~to~~ at this time

Geo Belfrage
by G H Brewer

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

Reviewed by
DMEA OPERATING COMMITTEE
1/15/52
(date) JHB

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA 2053, Tungsten Deposits

Pine Gold, Madera County, California

William P. Irwin, Geologist
U.S. Geological Survey

December 27, 1951

Introduction

Six small tungsten deposits in Millerton Lake Quadrangle, Madera County, California, were examined for the Defense Minerals Administration on November 29, 1951, by W. P. Irwin and H. W. Imhols of the Geological Survey. Messers. G. E. Williams and J. M. Huston, applicants for a $5,000 loan to explore the deposits, accompanied Irwin and Imhols during the examination.

On the basis of the examination it is recommended that the requested loan not be granted. The estimated total tonnage of all six deposits is only 4000 tons of inferred ore with an estimated average grade of 0.66 percent WO_3. The individual deposits are widely separated, small and narrow. It is doubtful that a program to explore the deposits would promote discovery of ore reserves commensurate with the cost of the exploration.

The deposits are easily accessible during dry weather by fair dirt roads from Fine Gold, California (see index map). They are at altitudes ranging from 1750 to 2500 feet, and are free of snow except during short periods of unusually extreme winter weather.

The Fish Creek Mountain Nos. 1 and 2 deposits are on private land owned by Otis Teafort. Fish Creek Mountain No. 3 deposit is on Government land, and is under mineral claims by Teafort. The Fitcomb Flat Nos. 1 and 2 deposits, and Church Ranch deposit, are also privately owned. None of the deposts are held by Williams and Huston except by verbal agreement.

Little exploratory work has been done, and with the exception of the Fish Creek Mountain deposits, the work done was by prospectors searching for gold rather than tungsten. During World War II, the Fish Creek Mountain No. 1 deposit was worked on a small scale for tungsten, and several tons of hand sorted ore was produced.

Fish Creek Mountain No. 1 Deposit

The deposit is along the base of a cliff-like outcrop of micaceous schist. The foliation of the schist strikes northwest and dips very steeply to the southwest. The deposit is exposed at only one place, but small boulders of scheelite-bearing tactite attest to its presence beneath debris for a length of about 100 feet parallel to the foliation of the schist. At the northwest end of the deposit, a 100 foot drift heads northwest in schist. At the portal of the drift a tactite zone is exposed for three feet. It is only 1/2 foot thick, and is estimated to contain 0.5 percent WO_3. The first 25 feet of drift beyond the tactite exposure is lagged, but fragments of ore in the floor of the drift indicate that ore was encountered in at least part of the lagged area. No tactite is believed to have been found in the schist opened by the inner 75 feet.

Southeast from the portal, along the base of the cliff-like outcrop of the schist, tactite boulders are present that are considerably thicker and higher grade than the tactite zone exposed at the portal. They indicate that the deposit is an average of approximately one foot thick and contains about 1.0 percent WO_3,

Fish Creek Mountain No. 2 Deposit

Boulders of scheelite-bearing tactite are present in overburden for 50 feet in a road cut, but no bedrock is exposed. A few of the tactite boulders are as much as 2 feet in diameter and contain an average of about 1.0 percent WO_3. Adjacent to the roadcut, a 4 by 4-foot pit opens overburden containing similar scheelite-bearing tactite float.

Fish Creek Mountain No. 3 Deposit

Several small, shallow cuts expose a scheelite-bearing tactite body for about 50 feet. The country rock is not exposed. The bedding of the tactite strikes N. 60° W. and dips steeply to the southwest. The widest exposure of tactite is about 10 feet, most of which contains less than 0.1 percent WO_3. A 1-foot thick zone through the middle of the exposure, however, contains about 1.0 percent WO_3. Some of the boulders of tactite from the cuts contain 1.0 percent WO_3 and a few contain as much as 2.0 percent WO_3, but many are seemingly barren. The average grade of all of the observed tactite is estimated to be between 0.25 and 0.5 percent WO_3.

Titcomb Flat No. 1 Deposit

Scheelite-bearing tactite float is exposed by small workings on the south side of a knoll north of Titcomb Flat. A shaft 6 feet in diameter and 6 feet in depth is the southernmost exposure, and several shallow pits and trenches furnish discontinuous exposures for 100 feet to the north. The width of the tactite body is not known, as bedrock is not exposed, but judging from the distribution of the float, it appears likely that the deposit is less than 3 feet wide. The tactite float contains an estimated average of between 0.5 and 1.0 percent WO_3.

Titcomb Flat No. 2 Deposit

The main working is an 83-foot crosscut that heads S. 20° E. into a steep, northerly-facing hillside. The crosscut is in granodiorite to a point 65 feet from the portal. There it cuts silicated limestone with minor tactite, through which it continues until it re-enters granodiorite 3 feet from the face. At the 65-foot point, the contact strikes N. 80° E. and dips steeply to the south, and is exposed along a drift for 50 feet to the east to a caved area. Of the exposed tactite, only a few areas that total several square feet contain scheelite, and those areas are estimated to average less than 0.1 percent WO_3.

Several trenches, ranging from 25 to 100 feet higher on the hillside south of the portal of the crosscut, expose scheelite-bearing tactite float. The trenches are badly sloughed, and the presence of bedrock was not definitely established in any of them. Blocks of tactite are present in their dumps; some are devoid of scheelite, but others appear to contain as much as 1.0 percent WO_3. Judging from the positions of the cuts, the tactite is probably from the same body that is exposed in the crosscut, although of considerably greater abundance and higher grade.

Tactite and silicated limestone is exposed discontinuously for approximately 300 feet southwest of the trenches. The exposures are few and poor, owing to rather thick overburden and brush on the hillside but probably represent an extension of the tactite body exposed in the trenches and crosscut. Little scheelite was observed in the tactite.

Church Ranch deposit

Tactite crops out over an area 6 by 15 feet on the east bank of Fine Gold Creek. In several places, the tactite contains a few grains of scheelite. The average grade of the tactite is probably less than 0.01 percent WO_3.

Ore Reserves

The deposits contain no measured or indicated ore, and because of poor exposures, it is not possible to make other than a crude estimate of the tonnage and grade of inferred ore. The following is a tabulation of the inferred tonnage and estimated grade of the deposits. It is assumed that the tactite bodies are of the size and grade indicated mostly by float.

	Length	Width	Depth	Tons of Inferred Ore	%, WO_3
Fish Cr. Mtn. No. 1	100'	1'	50'	500	1.0
Fish Cr. Mtn. No. 2	50'	2'	25'	250	1.0
Fish Cr. Mtn. No. 3	50'	2'	25'	250	0.5
Tit. Flat No. 1	100'	2'	50'	1000	0.75
Tit. Flat No. 2	100'	4'	50'	2000	0.5
Church Ranch	-	-	-	nil	-

The deposits contain a total of 4000 tons of inferred ore with an estimated average weighted grade of 0.66% WO_3.

Exploration

The applicant has no specific plan for exploring the deposits, other than stripping them with a bulldozer. Considering the indicated small size of the deposits, it is probable that they could be well exposed on the surface for the $5000 estimated by the applicant.

The value of extensive surficial exploration is doubtful, however, as the deposits appear to be small, and, considering their narrow widths, of relatively low grade. The cost per ton of ore developed would be excessive. Because of the small likelihood of discovering a large deposit by further exploration, the best procedure would be to follow the ore with development workings, rather than burden the deposits with exploration costs.

Mr. Williams is in the summer resort business, and Mr. Huston is in the lumber business. They have had little experience in prospecting and mining, and do not have proper backgrounds to carry out an exploration program satisfactorily. They are partly aware of their lack of experience

and stated their intention to have an engineer or geologist advise them during their proposed exploration of the deposits.

Recommendations

The exploration loan requested by the applicant is not recommended, owing to the following reasons:

1- The applicant does not legally control the property.

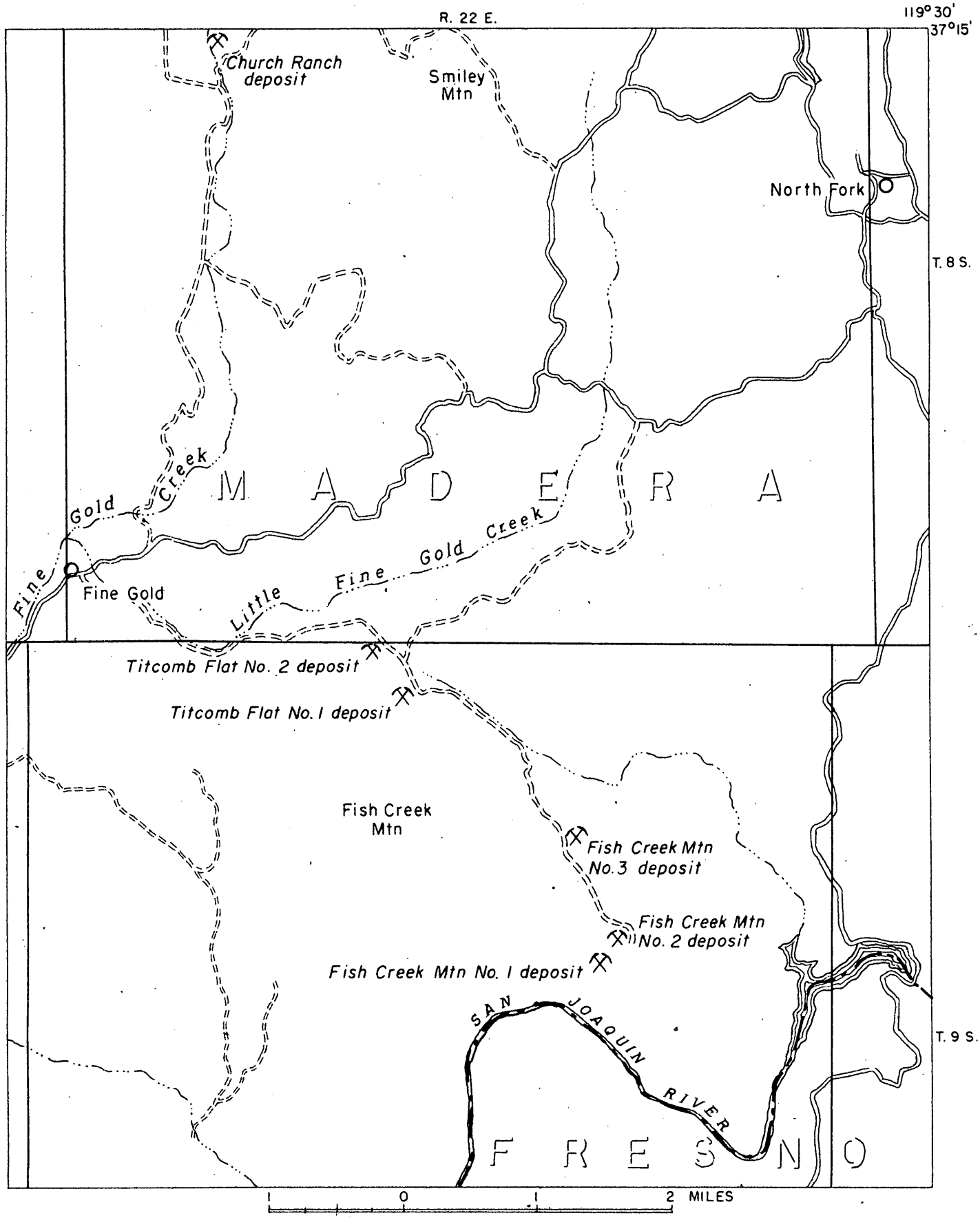
2- The deposits are narrow and of relatively low grade, and constitute only a small tonnage of inferred ore.

3- It is unlikely that the proposed exploration would result in the discovery of a large tonnage of ore.

4- The applicants appear incompetent to carry out the proposed exploration. It is doubtful whether a competent engineer or geologist would be induced to direct the exploration, considering the limited funds that would be available if the loan was granted.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA-2053
(TUNGSTEN)



Index map showing location of tungsten deposits near Fine Gold, Madera County, California

FILE COPY
SURNAME:

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

Jacoby
Thayer
Bishop

OCT 1 0 1951

a-8-e-

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

Subject: Exploration Loan
Fish Creek Mountain
Mr. G. E. Williams
The Pines
Williams Resorts, Inc.
Bass Lake, California
Tungsten- DMA-2053

Dear Mr. Miller:

We are referring DMA-2053 to you for further information. Neither the Bureau of Mines nor the Geological Survey have any information on this property.

Most of the questions have been only partially answered. In answer to question #5 the applicant says, "Owner and Lessee." He has submitted no lease and subordination agreements will be necessary.

The assays attached to the application give us no indication of how they were taken or what they represent. The applicant is not familiar with mining and we question his ability to layout an exploration program.

Very truly yours,

Parsons P.T. 10-10

Acting Tom Lyon, Chairman
Coordinating Committee

Enclosure

CHJacoby:ll 10/11/51
CC: DMA Docket File
Adm. Reading File
Mr. Lemmon
Mr. Geehan
Mr. Holderer

Bureau of Mines

Olaf N. Rove
Geological Survey

FILE COPY
SURNAME:

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

G. E. C.

OCT 10 1951

Mr. G. E. Williams
The Pines
Williams Resorts, Inc.
Bass Lake, California

In reply please refer to
DMA-2053

Dear Mr. Williams:

Your application for an exploration loan has been reviewed. Many of the questions were only partially answered so that it has been necessary to refer it to the field team.

We suggest that you contact Mr. H. C. Miller, 1012 Flood Building, 870 Market Street, San Francisco, California, and offer him whatever assistance he may require.

Very truly yours,

SIGNED S.F. 10-10

Tom Lyon, Director
Supply Division

CHHacoby : 11 9/31/51
CC: DMA Docket File
Adm. Reading File
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

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 2-2053

Date received 9-10-51

Participation

G. E. Williams
The Pines
Williams Resorts Inc.
Bass Lake, California

Name and address of applicant

Date September 5, 1951

FILL IN THIS BLOCK

Date of application August 10, 1951

Estimated cost $5,000.00

Mineral or metal Tungsten

Percentage of Government participation 3,750.00

Location of mine Hildrith Mining District
Madera County, California

Date of filing MF-100

DMA Docket Number, if available ~~92061~~ 2053

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

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

CERTIFICATION

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

Defense Minerals Development Co. (Name of company) By G. E. Williams (Signature of authorized official)

September 5, 1951 (Date) (Title)

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

*Same as footnote on page 1.

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

ANSWERS TO QUESTIONS ON FORM 103

1. Partnership
2. G. E. Williams
   The Pines
   Williams Resorts Inc.
   Bass Lake, Calif.
   James Huston
   Box 10
   Bass Lake, Calif.
3. No Answer
4. Both parties have been in business for several years and have had some mining experience.
5. Owners and Lessee
6. None
7. Agreement not complete
8.
9. $5,000.00
10. a. Refer to location on map inclosed.
11. Fish Creek Mountain
12. Refer to Sierra National Forest map inclosed.
13. San Joaquin River
14. None
15. Shipped by truck to Dinuba or Lindsay, a distance of approximately 100 miles on State Highway.
16. ~~None~~ These mines are on same ledge that are being mined and producing Tungsten in Fresno County.
17. Not in production.
18. Not operating
19.
20. Tungsten
21. Building roads and stripping for quanity of ore. Approximately 60 days.
22. Refer to inclosed assay
23. Will do own supervising and will rent all equipment necessary to complete project.
24. Approximately 60 days after approval.

ANSWERS TO QUESTIONS ON FORM 103

1. Partnership
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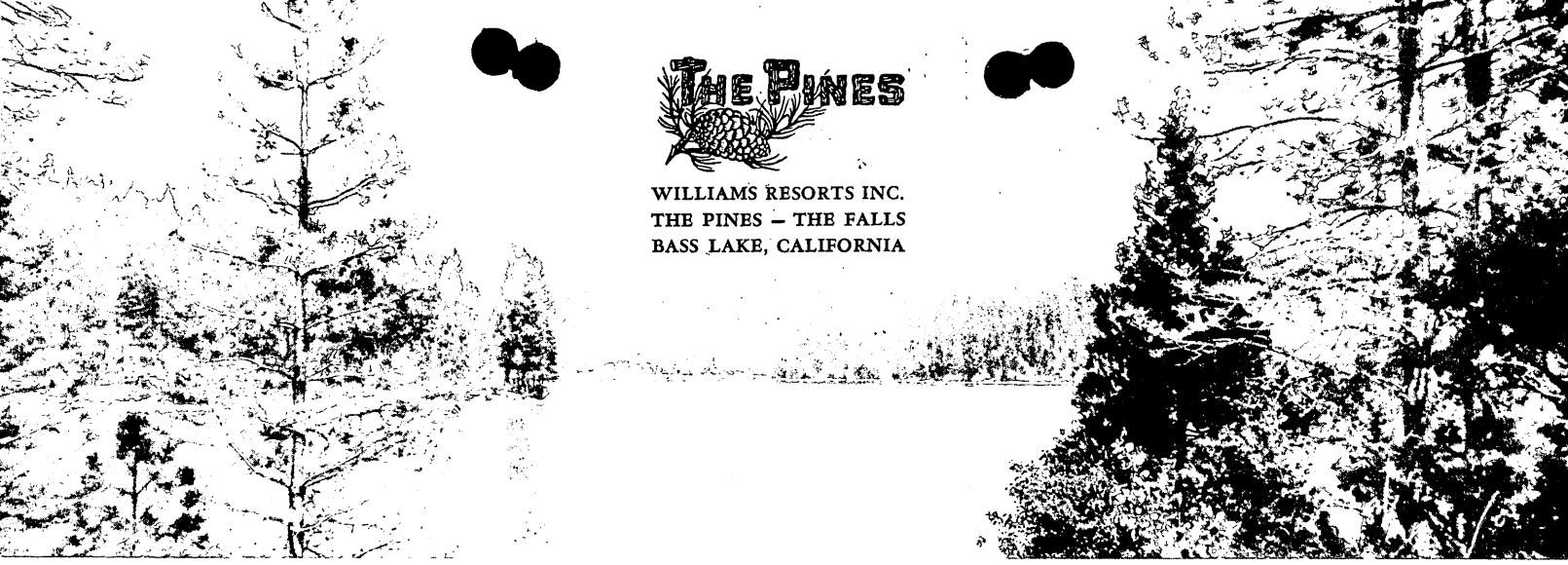

September 5, 1951

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

Dear Sir:

At my request I have just received information, instructions and forms regarding the Domestic Tungsten Program.

Enclosed with this letter are forms MF 103 which I have filled out to the best of my ability at this time. Also enclosed are some maps which will give the near location of Tungsten ores and claims which are available to us for development.

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I am in the Summer Resort Business, which is a seasonal occupation and will give me plenty of time during the next six months for exploration and development of our claims and others which we will control. I have a man going along with me on this who is in the logging business which also is somewhat seasonal. Our plan is as follows.

We have claims of our own discovery which we will develop and build roads to, and will also take over any claim that is developed or undeveloped which we believe will produce enough and the right quality of ore to be profitable. We will operate on a percentage basis depending on the accessability, location and possible mining difficulties. We do not intend to mine the ore ourselves but will see that it is properly done to the best interest to all parties. Our job will be to explore the claims, develop them and get the ore to the mills and on the market.

Our number 1 problem here is a sizeable mill. In a short while it would be possible to supply 2 to 300 tons of ore per day from this area alone.

These claims are at altitudes ranging from 500 to 2000 ft. elevation and could be operated the year around.

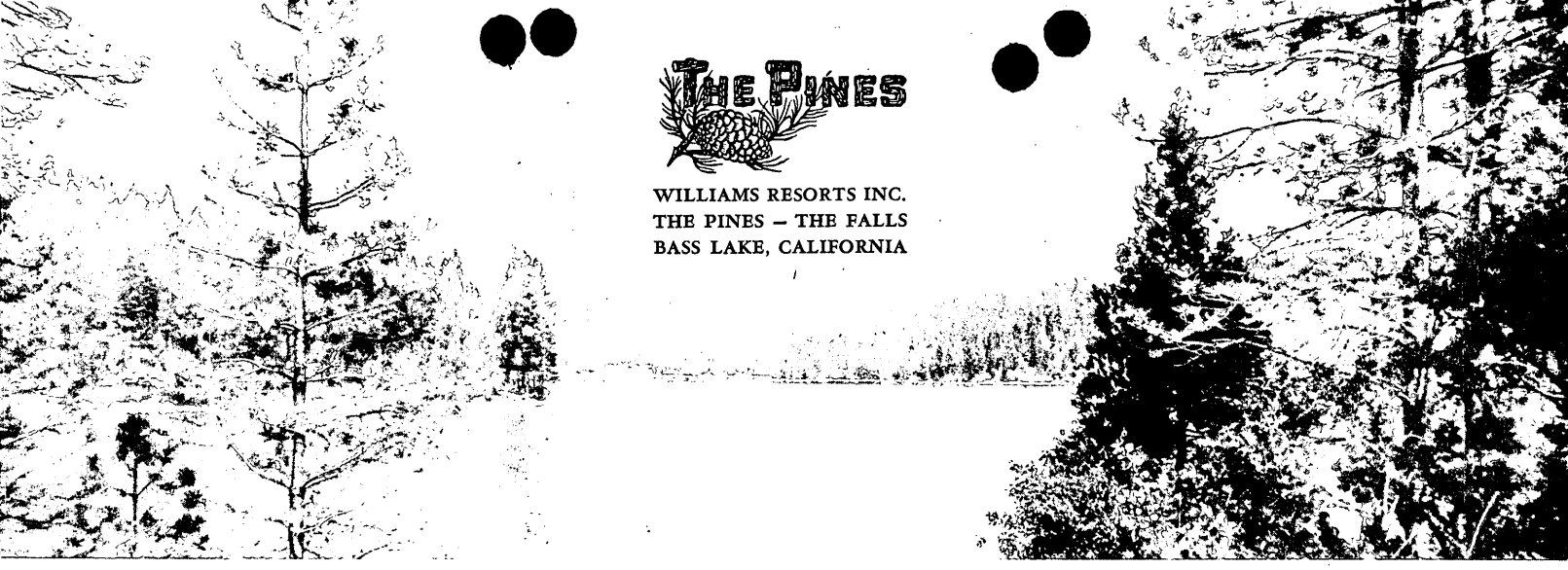
The maps enclosed are roughly sketched but will give the general location of the claims.

Please let me know the next move as we would like to start the ball rolling on this as soon as possible.

Yours truly,

G. E. Williams

G. E. Williams



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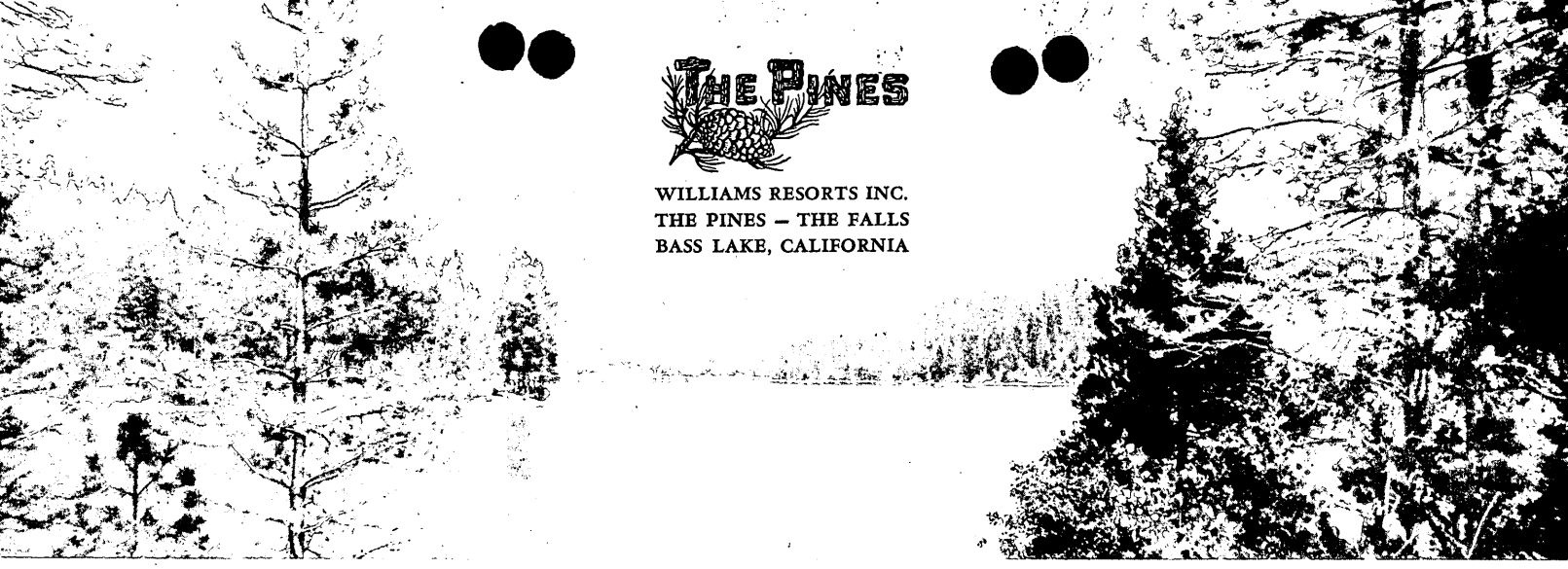

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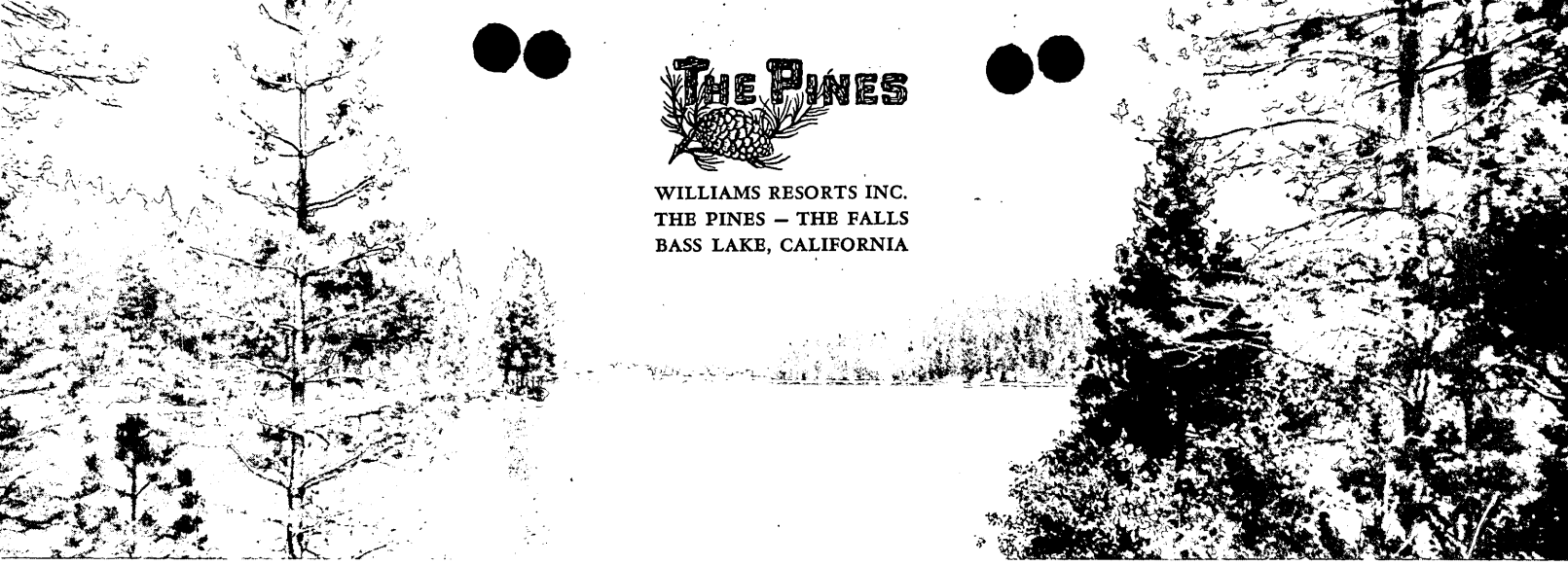

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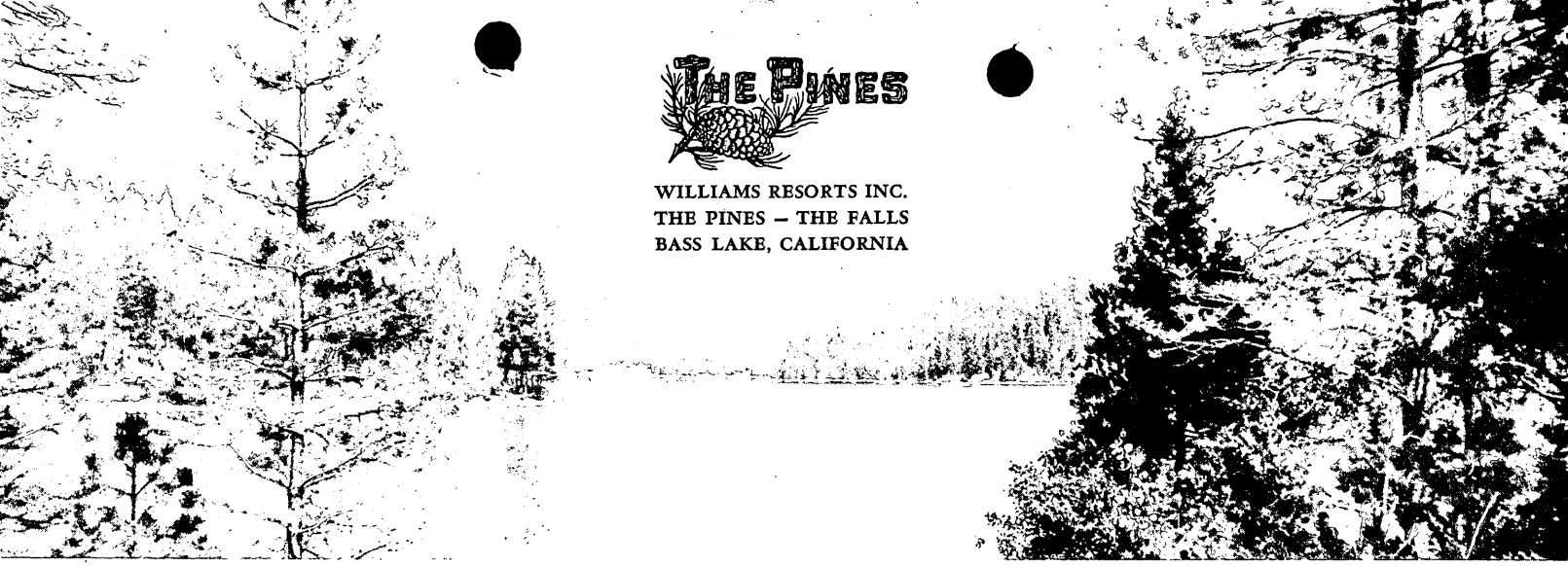

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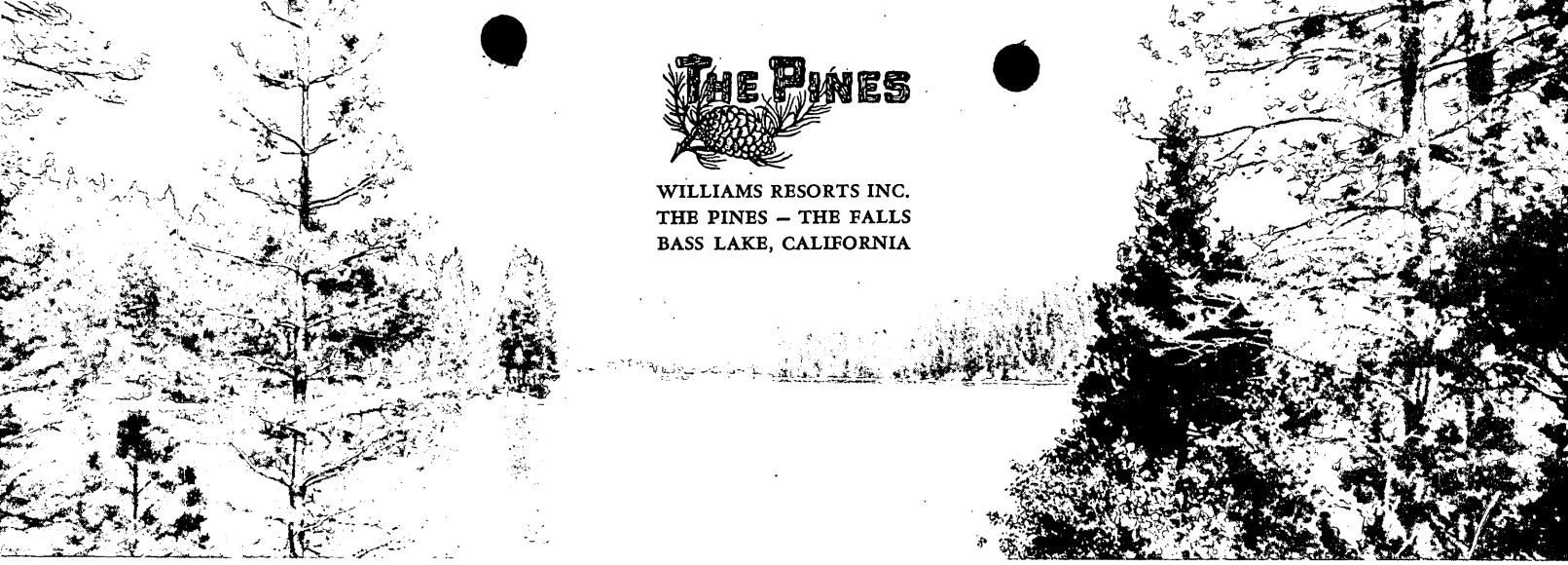

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G E Williams

ESTABLISHED 1897

The Twining Laboratories

THE BEST EQUIPPED COMMERCIAL LABORATORIES ON THE PACIFIC COAST

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

RESEARCH ANALYSTS
INDUSTRIAL CHEMISTS
TESTING ENGINEERS
INSPECTION

August 10, 1951

Examination 259632

For - G. E. Williams
Bass Lake, California

Sample - Ore, received 8-6-51

	Tungsten Trioxide (WO_3) Percent by weight
Titcon Flat No. 1	1.75
Titcon Flat No. 2	1.64
Fish Creek Mt. No. 3	1.50

THE TWINING LABORATORIES

By Fred W Twining

vy/ee

SCIENTIFIC AFFILIATIONS OF PRINCIPALS

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

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

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

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 9 1952

January 5, 1952

Reviewed by
DMEA OPERATING COMMITTEE
1/15/52 (date) JHB

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2053 (Tungsten) - Exploration Loan Fish Creek Mountain, G. E. Williams, The Pines, Williams Resorts, Inc., Bass Lake, California.

Reference is made to subject letter from Tom Lyon, dated October 10, requesting an examination of the applicants' tungsten properties near Madera, California.

Attached are four copies of a report, "DMEA-2053, Tungsten Deposits, Fine Gold, Madera County, California", by William P. Irwin, geologist, U. S. Geological Survey, dated December 27, 1951.

The examining geologist recommends denial of the requested loan. The estimated total tonnage of all six deposits is only 4,000 tons of inferred ore, with an estimated average grade of 0.66 percent WO_3. The individual deposits are widely separated, small, and narrow. It is doubtful that a program to explore the deposits would promote discovery of ore reserves commensurate with the cost of exploration. In addition, the applicants do not legally control the property, and appear incompetent to carry out the proposed exploration.

In view of the geologist's findings, no effort was made to obtain a copy of the applicants' lease and subordination agreements.

The docket is being returned herewith.

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

Attachments

Copy to E. H. Bailey, USGS

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

Reviewed by
DMEA OPERATING COMMITTEE
1/15/52 HB
(date)

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2053, Tungsten Deposits

Fine Gold, Madera County, California

William P. Irwin, Geologist
U. S. Geological Survey

December 27, 1951

Introduction

Six small tungsten deposits in Millerton Lake Quadrangle, Madera County, California, were examined for the Defense Minerals Administration on November 29, 1951, by W. P. Irwin and H. W. Imholz of the Geological Survey. Messers. G. E. Williams and J. M. Huston, applicants for a $5,000 loan to explore the deposits, accompanied Irwin and Imholz during the examination.

On the basis of the examination it is recommended that the requested loan not be granted. The estimated total tonnage of all six deposits is only 4000 tons of inferred ore with an estimated average grade of 0.66 percent WO_3. The individual deposits are widely separated, small and narrow. It is doubtful that a program to explore the deposits would promote discovery of ore reserves commensurate with the cost of the exploration.

The deposits are easily accessible during dry weather by fair dirt roads from Fine Gold, California (see index map). They are at altitudes ranging from 1750 to 2500 feet, and are free of snow except during short periods of unusually extreme winter weather.

The Fish Creek Mountain Nos. 1 and 2 deposits are on private land owned by Otis Teafort. Fish Creek Mountain No. 3 deposit is on Government land, and is under mineral claims by Teafort. The Titcomb Flat Nos. 1 and 2 deposits, and Church Ranch deposit, are also privately owned. None of the deposts are held by Williams and Huston except by verbal agreement.

Little exploratory work has been done, and with the exception of the Fish Creek Mountain deposits, the work done was by prospectors searching for gold rather than tungsten. During World War II, the Fish Creek Mountain No. 1 deposit was worked on a small scale for tungsten, and several tons of hand sorted ore was produced.

Fish Creek Mountain No. 1 Deposit

The deposit is along the base of a cliff-like outcrop of micaceous schist. The foliation of the schist strikes northwest and dips very steeply to the southwest. The deposit is exposed at only one place, but small boulders of scheelite-bearing tactite attest to its presence beneath debris for a length of about 100 feet parallel to the foliation of the schist. At the northwest end of the deposit, a 100 foot drift heads northwest in schist. At the portal of the drift a tactite zone is exposed for three feet. It is only 1/2 foot thick, and is estimated to contain 0.5 percent WO_3. The first 25 feet of drift beyond the tactite exposure is lagged, but fragments of ore in the floor of the drift indicate that ore was encountered in at least part of the lagged area. No tactite is believed to have been found in the schist opened by the inner 75 feet.

Southeast from the portal, along the base of the cliff-like outcrop of the schist, tactite boulders are present that are considerably thicker and higher grade than the tactite zone exposed at the portal. They indicate that the deposit is an average of approximately one foot thick and contains about 1.0 percent WO_3.

Fish Creek Mountain No. 2 Deposit

Boulders of scheelite-bearing tactite are present in overburden for 50 feet in a road cut, but no bedrock is exposed. A few of the tactite boulders are as much as 2 feet in diameter and contain an average of about 1.0 percent WO_3. Adjacent to the roadcut, a 4 by 4-foot pit opens overburden containing similar scheelite-bearing tactite float.

Fish Creek Mountain No. 3 Deposit

Several small, shallow cuts expose a scheelite-bearing tactite body for about 50 feet. The country rock is not exposed. The bedding of the tactite strikes N. 60° W. and dips steeply to the southwest. The widest exposure of tactite is about 10 feet, most of which contains less than 0.1 percent WO_3. A 1-foot thick zone through the middle of the exposure, however, contains about 1.0 percent WO_3. Some of the boulders of tactite from the cuts contain 1.0 percent WO_3 and a few contain as much as 2.0 percent WO_3, but many are seemingly barren. The average grade of all of the observed tactite is estimated to be between 0.25 and 0.5 percent WO_3.

Titcomb Flat No. 1 Deposit

Scheelite-bearing tactite float is exposed by small workings on the south side of a knoll north of Titcomb Flat. A shaft 6 feet in diameter and 6 feet in depth is the southernmost exposure, and several shallow pits and trenches furnish discontinuous exposures for 100 feet to the north. The width of the tactite body is not known, as bedrock is not exposed, but judging from the distribution of the float, it appears likely that the deposit is less than 3 feet wide. The tactite float contains an estimated average of between 0.5 and 1.0 percent WO_3.

Titcomb Flat No. 2 Deposit

The main working is an 83-foot crosscut that heads S. 20° E. into a steep, northerly-facing hillside. The crosscut is in granodiorite to a point 65 feet from the portal. There it cuts silicated limestone with minor tactite, through which it continues until it re-enters granodiorite 3 feet from the face. At the 65-foot point, the contact strikes N. 80° E. and dips steeply to the south, and is exposed along a drift for 50 feet to the east to a caved area. Of the exposed tactite, only a few areas that total several square feet contain scheelite, and those areas are estimated to average less than 0.1 percent WO_3.

Several trenches, ranging from 25 to 100 feet higher on the hillside south of the portal of the crosscut, expose scheelite-bearing tactite float. The trenches are badly sloughed, and the presence of bedrock was not definitely established in any of them. Blocks of tactite are present in their dumps; some are devoid of scheelite, but others appear to contain as much as 1.0 percent WO_3. Judging from the positions of the cuts, the tactite is probably from the same body that is exposed in the crosscut, although of considerably greater abundance and higher grade.

Tactite and silicated limestone is exposed discontinuously for approximately 300 feet southwest of the trenches. The exposures are few and poor, owing to rather thick overburden and brush on the hillside, but probably represent an extension of the tactite body exposed in the trenches and crosscut. Little scheelite was observed in the tactite.

Church Ranch deposit

Tactite crops out over an area 6 by 15 feet on the east bank of Fine Gold Creek. In several places, the tactite contains a few grains of scheelite. The average grade of the tactite is probably less than 0.01 percent WO_3.

Ore Reserves

The deposits contain no measured or indicated ore, and because of poor exposures, it is not possible to make other than a crude estimate of the tonnage and grade of inferred ore. The following is a tabulation of the inferred tonnage and estimated grade of the deposits. It is assumed that the tactite bodies are of a size and grade indicated mostly by float.

	Length	Width	Depth	Tons of Inferred Ore	%, WO_3
Fish Cr. Mtn. No. 1	100'	1'	50'	500	1.0
Fish Cr. Mtn. No. 2	50'	2'	25'	250	1.0
Fish Cr. Mtn. No. 3	50'	2'	25'	250	0.5
Tit. Flat No. 1	100'	2'	50'	1000	0.75
Tit. Flat No. 2	100'	4'	50'	2000	0.5
Church Ranch	-	-	-	nil	-

The deposits contain a total of 4000 tons of inferred ore with an estimated average weighted grade of 0.66% WO_3.

Exploration

The applicant has no specific plan for exploring the deposits, other than stripping them with a bulldozer. Considering the indicated small size of the deposits, it is probable that they could be well exposed on the surface for the $5000 estimated by the applicant.

The value of extensive surficial exploration is doubtful, however, as the deposits apear to be small, and, considering their narrow widths, of relatively low grade. The cost per ton of ore developed would be excessive. Because of the small likelihood of discovering a large deposit by further exploration, the best procedure would be to follow the ore with development workings, rather than burden the deposits with exploration costs.

Mr. Williams is in the summer resort business, and Mr. Huston is in the lumber business. They have had little experience in prospecting and mining, and do not have proper backgrounds to carry out an exploration program satisfactorily. They are partly aware of their lack of experience

and stated their intention to have an engineer or geologist advise them during their proposed exploration of the deposits.

Recommendations

The exploration loan requested by the applicant is not recommended, owing to the following reasons:

1- The applicant does not legally control the property.

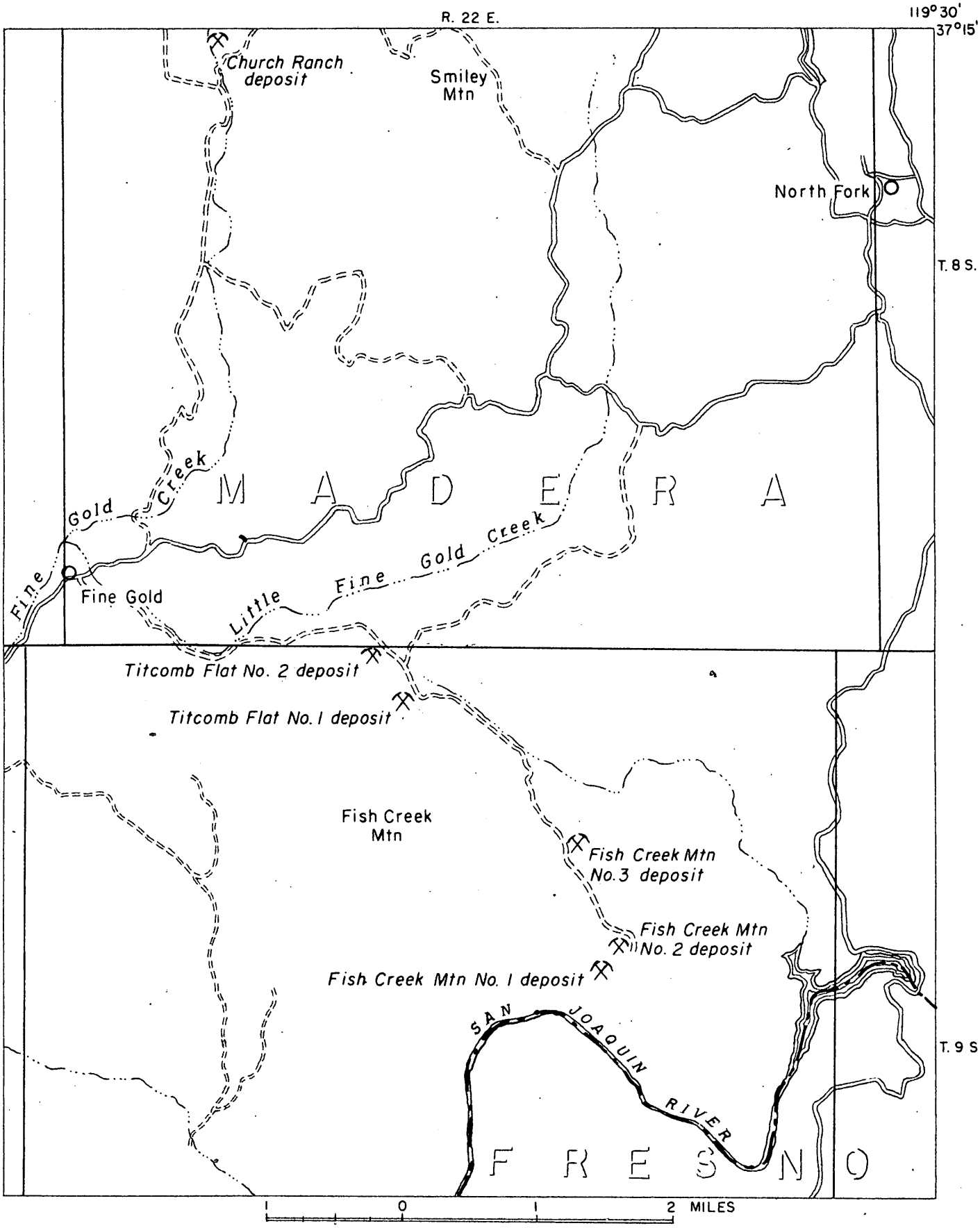
2- The deposits are narrow and of relatively low grade, and constitute only a small tonnage of inferred ore.

3- It is unlikely that the proposed exploration would result in the discovery of a large tonnage of ore.

4- The applicants appear incompetent to carry out the proposed exploration. It is doubtful whether a competent engineer or geologist could be induced to direct the exploration, considering the limited funds that would be available if the loan was granted.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMA-2053
(TUNGSTEN)



Index map showing location of tungsten deposits near Fine Gold, Madera County, California

Index of File To Field Team
DMA-2053 Tungsten

1 copy of letter to Williams from Adams (no date)
~~[illegible]~~ copies of forms MF-103 with attached sheets
assays and maps.

9/31/51

OCT 10 1957

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

Subject: Exploration Loan
Fish Creek Mountain
Mr. G. E. Williams
The Pines
Williams Resorts, Inc.
Bass Lake, California
Tungsten- DMA-2053

Dear Mr. Miller:

We are referring DMA-2053 to you for further information. Neither the Bureau of Mines or the Geological Survey have any information on this property.

Most of the questions have been only partially answered. In answer to question #5 the applicant says, "Owner and Lessee." He has submitted no lease and subordination agreements will be necessary.

The assays attached to the application give us no indication of how they were taken or what they represent. The applicant is not familiar with mining and we question his ability to layout an exploration program.

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

Enclosure

Bureau of Mines

Geological Survey

Index of File to Field Team DMA-2053 Tungsten

1 copy of form MF-103 with attached sheets assays and maps.

This particular deposit
not known to Survey;
is not very far from other
prospects that have not
shipped any ore.
Not likely to develope
into much, but will
have to go to field
TPI

9/26/51
Q.M.R. 2053

G. E. Williams
The Pines
Williams Resorts Inc.
Bass Lake, Box 10, California

Subject: DMA-2053
Re: Exploration Loan
Fish Creek Mountain

My dear Mr. Williams:

This will acknowledge receipt of your application dated September 5, 1951 for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2053 and referred to the Ferro Alloys Branch.

Kindly refer to DMA-2053 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

2463

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-2053

Date received 9-10-51

Participation

G. E. Williams
The Pines
Williams Resorts Inc.
Bass Lake, California

Name and address of applicant

Date September 5, 1951

FILL IN THIS BLOCK

Date of application August 10, 1951

Estimated cost $5,000.00

Mineral or metal Tungsten

Percentage of Government participation $3,750.00

Location of mine Hildrith Mining District
Madera County, California

Date of filing MF-100

DMA Docket Number, if available ~~92061~~ 2053

INSTRUCTIONS

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DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 8 09 AM '51

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

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

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16—64067-1

THE PROPERTY

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

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

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

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    (*a*) Describe the ore or mineral deposits briefly.
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20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

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

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

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

THE REQUIREMENTS AND COSTS

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

Defense Minerals Development Co.
(Name of company)

By G. E. Williams
(Signature of authorized official)

September 5, 1951
(Date)

(Title)

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*Same as footnote on page 1.

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

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 - 2053

Date received 9-10-51

Participation

G. E. Williams
The Pines
Williams Resorts Inc.
Bass Lake, California

Name and address of applicant

Date September 5, 1951

FILL IN THIS BLOCK

Date of application August 10, 1951

Estimated cost $5,000.00

Mineral or metal Tungsten

Percentage of Government participation 3,750.00

Location of mine Hildrith Mining District

Madera County, California

Date of filing MF-100

DMA Docket Number, if available ~~92661~~ 2053

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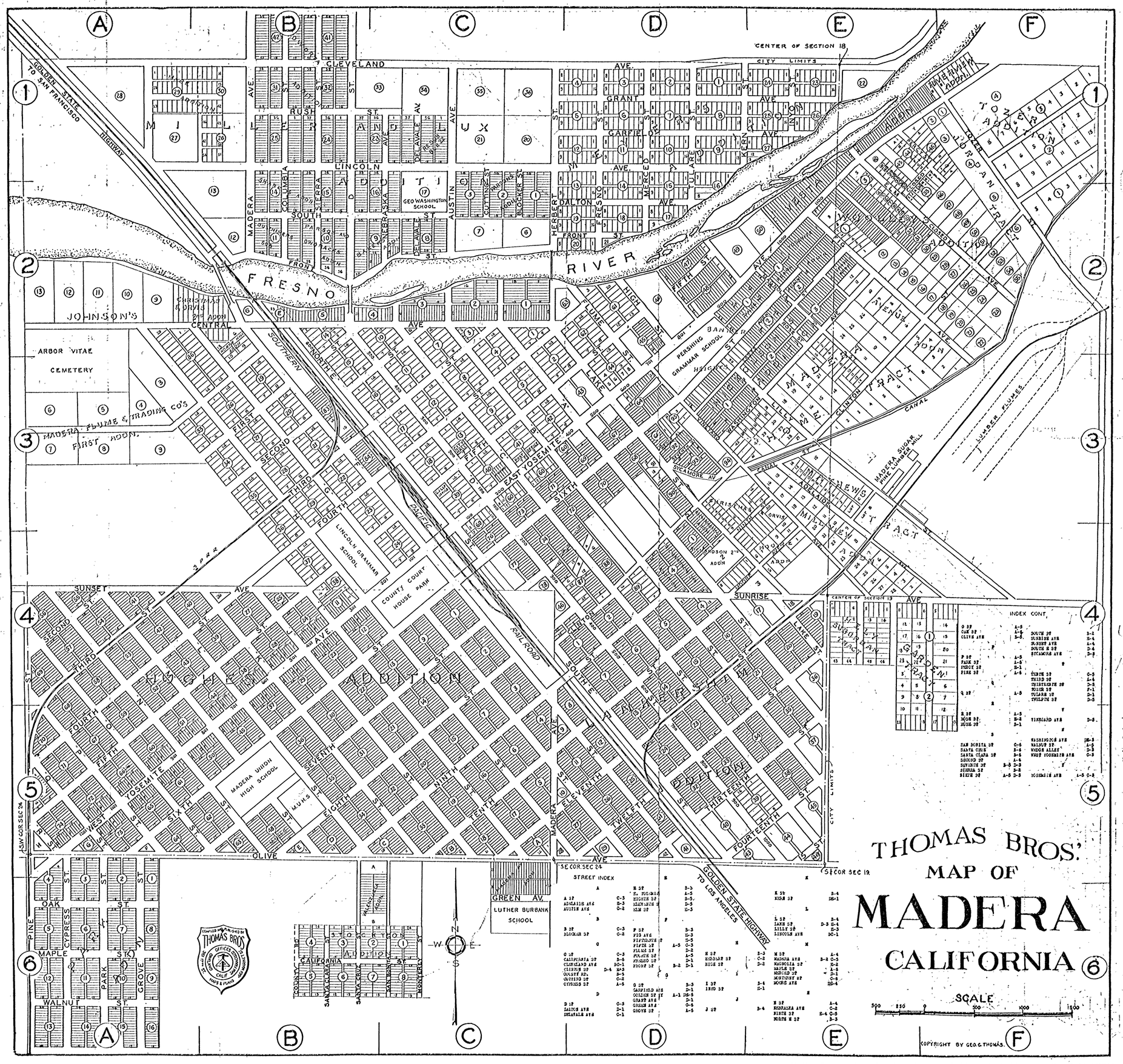


CITY OF

MADERA

Madera, the county seat of Madera County, is situated near the center of the plain section of the County. It has a population of 10,428 in contrast to 6,457 in 1940.

The immediate trading area of the city is approximately 1000 square miles, embracing a large, highly developed agricultural area. Its industries are largely processing plants for agricultural products and natural resources.

The shortest road to Yosemite Valley, via the Mariposa Big Trees and the "Discovery Road", connects with State Highway No. 99 at Madera and the Pacheco Pass Highway gives quick access to all coastal points.

The city has splendid schools, churches, service clubs and all the facilities to make it an attractive place in which to live.

The city is the main supply point for vacation, fishing and hunting trips to the nearby great scenic area of the Sierra Nevada Mountains.

CITY OF

CHOWCHILLA

Chowchilla has grown from 1,957 to 3,888 in population within the last ten years. It is situated in the Northern area of Madera County. Its Cotton Seed Oil Mill is its principal industry and the Danish Creamery processes the milk of some 15,000 dairy cows in Madera County.

It is a fast growing, progressive community situated in an agricultural area of rapid development.

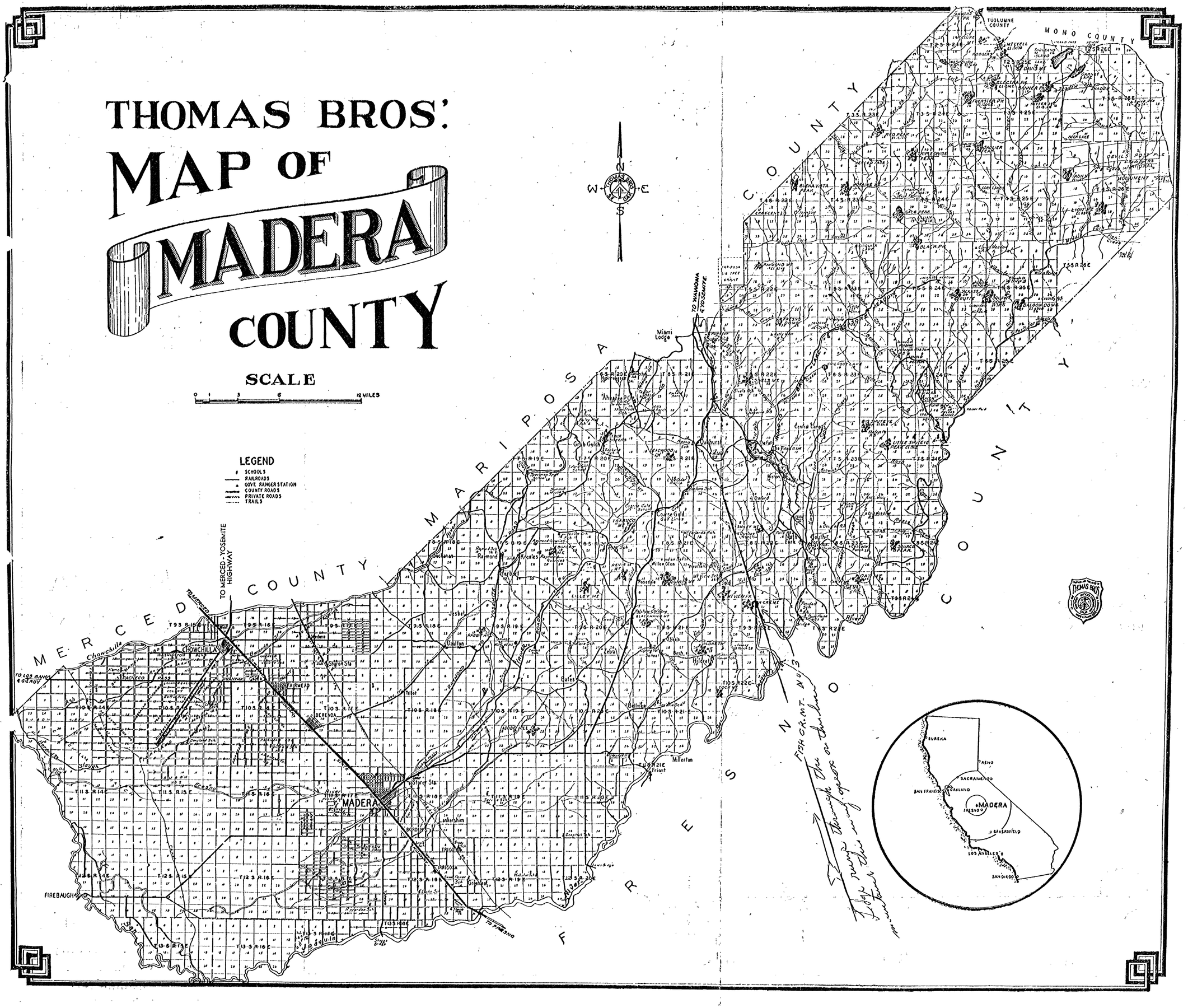
MAP OF

MADERA COUNTY

AND

MADERA CITY

Madera County
Chamber of
Commerce
MADERA, CALIFORNIA



MADERA COUNTY

Madera County is located at the geographical center of the State of California.

Its area is 2112 square miles (1,374,720 acres) of which one-third is level plain, one-third foothills and one-third mountains.

The population in 1930 was 17,164, in 1940 it had risen to 23,314 and in the 1950 census to 36,964.

The average annual rainfall is ten inches in the lower plains but increases with the higher altitudes.

The mean annual temperature is 62 degrees ranging from 25, the winter's coldest, to 110, the summer high. The low humidity prevents heat prostrations.

MADERA COUNTY'S AGRICULTURAL COMMISSIONER'S REPORT:

	1940	1950
Cotton	$ 3,811,950	$15,216,000
Hay	498,670	4,492,210
Barley	724,200	3,504,000
Other Field Crops	962,810	4,641,940
Fruit & Nuts	1,665,825	8,864,545
Truck Crops	188,280	351,580
Beef Cattle	2,394,810	10,017,415
Dairy Products	866,250	4,037,100
Poultry & Eggs	195,750	2,487,355
Other Live Stock Products	430,665	1,272,630
Miscellaneous	54,840	147,145
Lumber		1,879,080
	$11,794,050	$56,941,000

The mountain lumber industry is represented by several large operating companies and the 1951 output will greatly exceed recent cuttings.

At Knowles, the largest operator is the Raymond, Knowles Granite Quarries.

The Civic Center in San Francisco, the State Capitol Building in Sacramento and many other buildings throughout the State have been constructed from Madera County granite.

Madera County in the past has produced large amounts of gold and many other minerals are to be found which have been mined in quantity including copper, silver, lead, iron and tungsten.

Agricultural development in Madera County has, in the past, been dependent upon pumping from underground water, but since the Friant Dam was built, under the Central Valley Water Project, great relief has been afforded by gravity water from the Madera Canal originating at Friant Dam.

A great natural resource of Madera County is its scenic region. The crest of the Sierra Nevada Mountains is the Eastern boundary of the County. Some of the mountain peaks are more than 13,000 feet high. Its hundreds of crystal-clear lakes, dense forests and green meadows make a wonderful vacation land. In its lakes and streams are trout of different species and in its forests are found deer and bear. Good roads lead into the area and from them trails radiate in all directions. Each year many thousands of vacationists, fishermen and hunters visit that great region.

The County has adequate schools which are of high standard and the buildings are of a modern type.

Madera, the County seat, with a population of 10,428, is the largest city.

Chowchilla with 3,888 people is the second in size. Other communities are North Fork, Raymond, Knowles and Oakhurst in the hill and mountain areas. Bass Lake on the edge of the Sierra National Forest, has many resorts and is a mecca for large numbers of vacationists.

The Golden State Highway No. 99 crosses the County from North to South as does the two main line railroads, the Southern Pacific and the Santa Fe. Good roads lead to all sections of the County, so complete transportation access is provided.

Madera County has no bonded debt and its tax rates have always been moderate.

Further detailed information upon request.

MADERA COUNTY
CHAMBER OF COMMERCE
P. O. BOX 479
MADERA, CALIFORNIA