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Routing Slip

To:	Field Team, Reg. III	Date	10/29/51
To:	Operating Comm.	Date	12/26/51
To:		Date	
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APPLICATION FOR EXPLORATION

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 10/5/51

To: Mr. Selfridge Date 1/3/52
Bldg. 3538

To: _____ Date _____

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CONTROLLED DOCUMENT

Mr. Russell J. Wilson
Box No. 1
Garden Valley, California

Re: Docket No. DMA 2127X (Tungsten)
Early Mine
Mariposa County, California

Dear Mr. Wilson:

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

GCGentry/FEJohnson/lm/bih
1/28/52
cc to: Admr's. Reading File
Docket
Messrs. RGGeehan, USBM
DMLemmon, USGS
GCSelfridge
GCGentry
Field Team, Region III (2)

January 22, 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 $7,895.40
Docket No. Z127X - Tungsten
Early Mine
Mariposa County, California

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

1. The field team examination on November 14, 1951, indicates that scheelite may possibly occur in small isolated areas but probably not in sufficient tonnage to be commercial. The average of seven samples taken by the examining engineer assayed less than 0.01 percent WO_3.

2. The proposed exploration would reopen a gold-quartz mine which showed only a very small amount of scheelite. Prior to dismantling, the mill had operated to recover the gold values only. Samples of the mill tailings assayed less than 0.01 percent WO_3, showing that the quartz contained insignificant quantities of scheelite.

3. Geologically, there is little probability of making a significant scheelite discovery.

GGGentry'lm
1/22/52

cc: Admn. Reading File
Docket
✓ G. C. Selfridge
G. G. Gentry

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

FILE COPY
SURNAME:

Thayer
Rodgers
F. Johnson

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

JAN 29 1952

Mr. Russell J. Wilson
Box No. 1
Garden Valley, California

Re: Docket No. DMA 2127X (Tungsten)
Early Mine
Mariposa County, California

Dear Mr. Wilson:

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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 (fw) J.N. 1-29-52

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry/FEJohnson/lm/bih
1/28/52
cc to: Admr's. Reading File
Docket
Messrs. RWGeehan, USBM
DMLemmon, USGS
GCSelfridge
GGGentry
Field Team, Region III (2)

FILE COPY
SURNAME:

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

Rewritten

Mr. Russell J. Wilson
Box No. 1
Garden Valley, California

Re: Docket No. DMA 2127X - Tungsten
Early Mine
Mariposa County, California

Dear Mr. Wilson:

We have now reviewed your application for an exploration loan and other data recently made available to us in Washington.

The information, while noting a small amount of marginal ore, 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 your patience and effort in this respect.

Sincerely yours,

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry'lm
1/22/52

cc: Admn. Reading File
✓ Docket
R. W. Geehan, USBM
D. M. Lemmon, USGS
Field Team Reg. III
G. C. Selfridge
G. G. Gentry

FILE COPY
SURNAME:

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

Selfridge
Hedges

January 22, 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 $7,895.40
Docket No. 2127X - Tungsten
Early Mine
Mariposa County, California

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

1. The field team examination on November 14, 1951, indicates that scheelite may possibly occur in small isolated areas but probably not in sufficient tonnage to be commercial. The average of seven samples taken by the examining engineer assayed less than 0.01 percent WO_3.

2. The proposed exploration would reopen a gold-quartz mine which showed only a very small amount of scheelite. Prior to dismantling, the mill had operated to recover the gold values only. Samples of the mill tailings assayed less than 0.01 percent WO_3, showing that the quartz contained insignificant quantities of scheelite.

3. Geologically, there is little probability of making a significant scheelite discovery.

GGGentry'lm
1/22/52

Signed

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

cc: Admn. Reading File
✓ Docket
G. C. Selfridge
G. G. Gentry

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

January 22, 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 $7,895.40
Docket No. 2127X - Tungsten
Early Mine
Mariposa County, California

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1. The field team examination on November 14, 1951, indicates that scheelite may possibly occur in small isolated areas but probably not in sufficient tonnage to be commercial. The average of seven samples taken by the examining engineer assayed less than 0.01 percent WO_3.

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3. Geologically, there is little probability of making a significant scheelite discovery.

G. C. Selfridge.

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

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

January 11, 1952

Memorandum

To: George Selfridge, D.M.E.A. — Rm. 4070

From: R. W. Geehan, Bureau of Mines

Subject: Exploration Application $7,895.40 DMEA-2127
Russell J. Wilson Tungsten
Box Number 1
Garden Valley, California

Reference is made to your longhand memo of January 7, regarding the subject mine.

The recovery of scheelite at gravity type mills designed specifically for tungsten recovery is seldom more than 80 percent. It seems probable that a gravity-type gold mill would recover still less.

If the tailings contain 0.01 percent WO_3 and the recovery was 80 percent, the ore contained 0.05 percent WO_3. If the recovery was 90 percent (equal to the most modern tungsten mills) the ore contained not over 0.1 percent WO_3. This is sub-marginal.

I concur with the Field Team that the most that is justified is surface exploration. It seems almost certain that any tungsten of commercial grade will occur in pockets, and in view of the shallow depth of the adit, it would seem that little would be gained by cleaning it out. Why not send this back, suggesting some such change, in line with the feeling of the engineer who examined the deposit?

Robert W. Geehan

Robert W. Geehan

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

January 11, 1952

Memorandum

To: George Selfridge, P.H.M.S.

From: J. R. Geehan, Bureau of Mines

Subject: Exploration Application 7,[illegible]5.40 [illegible]-[illegible]7
Russell J. Wilson Tungsten
Ten Number 1
Garden Valley, California

Reference is made to your longhand memo of January 7, regarding the subject mine.

The recovery of scheelite at gravity type mills designed specifically for tungsten recovery is seldom more than 80 percent. It seems probable that a gravity-type gold mill would recover still less.

If the tailings contain [illegible].01 percent WO3 and the recovery was 80 percent, the ore contained 0.05 percent WO3. If the recovery was 90 percent (equal to the most modern tungsten mills) the ore contained not over [illegible] percent WO3. This is sub-marginal.

I concur with the Field Team that the most that is justified is surface exploration. It seems almost certain that any tungsten of commercial grade will occur in pockets, and in view of the shallow depth of the adit, it would seem that little would be gained by cleaning it out. Why not send this back, suggesting some such change, in line with the feeling of the engineer who examined the deposit?

Robert W. Geehan

RWGeehan:elk
cc: Mr. Geehan
Ferrous M&A
Mr. Katlin
Files
Mr. Selfridge

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

January 11, 1952

Memorandum

To: George Seifridge, [illegible]

From: R. W. Geehan, Bureau of Mines

Subject: Exploration Application 7,[illegible] [illegible]-0127
Russell C. Wilson Tungsten
[illegible] Number 1
Cactus Valley, California

Reference is made to your long and note of January 7, regarding the subject file.

The recovery of scheelite at gravity type mills designed specifically for tungsten recovery is seldom more than 60 percent. It seems probable that a gravity-type gold mill would recover still less.

If the tailings contain 0.01 percent WO_3 and the recovery was 60 percent, the ore contained 0.05 percent WO_3. If the recovery was 90 percent (equal to the most modern tungsten mills) the ore contained not over 0.1 percent WO_3. This is sub-marginal.

I concur with the field man that the most that is justified is surface exploration. It seems almost certain that any tungsten of commercial grade will occur in pockets, and in view of the shallow depth of the adit, it would seem that little would be gained by cleaning it out. Why not send this back, suggesting some slight change, in line with the feeling of the engineer who examined the deposit?

Robert W. Geehan

RWGeehan:elk
cc: Mr. Geehan
Ferrous FSA
Mr. Katlin
Files
Mr. Seifridge

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

January 11, 1952

Memorandum

To: George Selfridge, [illegible]

From: R. W. Geehan, Bureau of Mines

Subject: Exploration Application 7,[illegible] [illegible] A-[illegible]
Russell S. Wilson Tungsten
Box Number 1
Gerlach Valley, California

Reference is made to your letter and map of January 7, regarding the subject mine.

The recovery of scheelite at gravity type mills designed specifically for tungsten recovery is seldom more than 80 percent. It seems probable that a gravity-type gold mill would recover still less.

If the tailings contain 0.01 percent WO_3 and the recovery was 80 percent, the ore contained 0.05 percent WO_3. If the recovery was 90 percent (equal to the most modern tungsten mills) the ore contained not over 0.1 percent WO_3. This is sub-marginal.

I concur with the field [illegible] that the most that is justified is surface exploration. It seems almost certain that any tungsten of commercial grade will occur in pockets, and in view of the shallow depth of the adit, it would seem that little would be gained by cleaning it out. Why not send this back, suggesting some such change, in line with the feeling of the engineer who examined the deposit?

Robert W. Geehan

RWGeehan:elk
cc; Mr. Geehan
Ferrous [illegible]A
Mr. Katzin
Files
Mr. Selfridge

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

January 11, 1952

Memorandum

To: George Selfridge, D.M.E.A.

From: R. W. Geehan, Bureau of Mines

Subject: Exploration Application 87,895.40 DMEA-2127
Russell J. Wilson Tungsten
Box Number 1
Garden Valley, California

Reference is made to your longhand memo of January 7, regarding the subject mine.

The recovery of scheelite at gravity type mills designed specifically for tungsten recovery is seldom more than 80 percent. It seems probable that a gravity-type gold mill would recover still less.

If the tailings contain 0.01 percent WO_3 and the recovery was 80 percent, the ore contained 0.05 percent WO_3. If the recovery was 90 percent (equal to the most modern tungsten mills) the ore contained not over 0.1 percent WO_3. This is sub-marginal.

I concur with the Field Team that the most that is justified is surface exploration. It seems almost certain that any tungsten of commercial grade will occur in pockets, and in view of the shallow depth of the adit, it would seem that little would be gained by cleaning it out. Why not send this back, suggesting some such change, in line with the feeling of the engineer who examined the deposit?

Robert W. Geehan

RWGeehan:elk
cc; Mr. Geehan
Ferrous M&A
Mr. Katlin
Files
Mr. Selfridge

FILE COPY
Surname:

Geehan

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

January 11, 1952

Memorandum

To: George Selfridge, D.M.E.A.

From: R. W. Geehan, Bureau of Mines

Subject: Exploration Application $7,895.40 DMEA-2127
Russell J. Wilson Tungsten
Box Number 1
Garden Valley, California

Reference is made to your longhand memo of January 7, regarding the subject mine.

The recovery of scheelite at gravity type mills designed specifically for tungsten recovery is seldom more than 80 percent. It seems probable that a gravity-type gold mill would recover still less.

If the tailings contain 0.01 percent WO_3 and the recovery was 80 percent, the ore contained 0.05 percent WO_3. If the recovery was 90 percent (equal to the most modern tungsten mills) the ore contained not over 0.1 percent WO_3. This is sub-marginal.

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Robert W. Geehan

RWGeehan:elk
cc; Mr. Geehan
Ferrous M&A
Mr. Katlin
Files
Mr. Selfridge

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George Selfridge, DMEA DATE: January 4, 1952

FROM : D. M. Lemmon, USGS

SUBJECT: Exploration application $7,895.40 DMEA 2127 - Tungsten
Russell J. Wilson
Box No. 1, Garden Valley, Calif.

Property: Early mine, Mariposa County, Calif.

An examination was made by the Field Team, Region III, and a report by Frank Wiebelt, dated December 12, 1951, recommended denial of the application.

The proposed exploration would reopen a gold-quartz vein which contains some scheelite. Samples of mill tailings of gold ore taken from this vein assayed less than 0.01 percent of WO_3, showing that the quartz contained insignificant quantities of scheelite.

I concur with the field team and recommend denial of the application.

DM Lemmon

George Selfridge, DMEA

January 4, 1952

D. M. Lemmon, USGS

Exploration application $7,895.40 DMEA 2127 - Tungsten
Russell J. Wilson
Box No. 1, Garden Valley, Calif.

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D M Lemmon

DMLemmon:gt

George Selfridge, DMEA

January 4, 1952

D. M. Lemmon, USGS

Exploration application $7,895.40 DMEA 2127 - Tungsten
Russell J. Wilson
Box No. 1, Garden Valley, Calif.

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George Selfridge, DMEA January 4, 1952

D. M. Lemmon, USGS

Exploration application $7,895.40 DMEA 2127 - Tungsten
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DM Lemmon

DMLemmon:gt

1/7 - ORB

Mr. R.W. Geehon.
3521 New Interior

Re 2127
Early Mine -
Mariposa Co, Calif.

Herewith (1) Original application
(2) Thayers statement of Oct 15 prior to Field team Rept
(3) Field team Rept of Dec 20
(4) Lemmon statement of Jan 4. which denies application on basis of samples of tailings going only .01 % WO_3 and poor results from lumping, altho Field team report state quartz-sheelite and aplite-scheelite specimens of good grade were collected on ~~old~~ old mine dumps.

I would point out that the aplite usually preceded the vein formation and, not being gold-bearing quartz, would likely be discarded on the dumps. Also, chronologically, in 1917, the concentration mill was probably a stamp mill crushing thru 40 mesh followed by plates and Tables - The tables undoubtedly put the scheelite in the pyritic-gold concentrate when it went to the amalgamation barrels, or to the smelter, in either case the scheelite would not get into the mill tailings pond. To me the .01 % WO_3 in the tails merely signifies that the early operators did a good job of gravity separation - and the basic premise of denial in this case is not valid.

How about it?

Quentin L. Brewer

Geo Ralph Rice - by QLB

George B. Holderer October 15, 1951

T. P. Thayer

DMA-2127 - Tungsten. Early Mine, Mariposa County, Calif.
R. J. Wilson, Garden Valley, Calif.

Apparently specimens of good scheelite ore have been picked up on the mine dump, C. F. Park being a reliable witness on mineral identification. There is no information on this mine in our tungsten files, the mine having been worked only for gold and silver.

More information should be gotten on the material in the dump before a field examination is made, as the dump appears to be the key to the whole problem. The field office raised this question, and I do not believe it has been answered satisfactorily yet. Even though the ore was milled for gold, any tailings left should contain the original scheelite, and the tailings dump should be sought out and carefully checked.

When answers on these points have been received, a field referral would appear to be in order.

TPThayer:gt

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-2127, Early Mine

Mariposa County, Calif.

Frank J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

December 13, 1951

EARLY MINE
Mariposa County, Calif.

SUMMARY

A Bureau of Mines engineer[1] examined the Early Mine on Nov. 14, 1951. The examination was made pursuant to an "Application for aid for an Exploration Project" under the Defense Production Act of 1950, by Russell J. Wilson of Garden Valley, Calif.

The Early mine is approximately 4 miles northeasterly of Acorn Lodge, on State Highway 140, which is 5 miles northeast of Mariposa, Calif.

The veins of the Early mine consist of gold bearing quartz in quartz-diorite. Small isolated bunches of scheelite appear to be present in some of the veins. Analyses of samples from the mill tailing ponds indicate presence of less than 0.01% WO_3 content.

The proposed exploration work is not warranted. Stripping operations, to expose the vein, followed by careful sampling operations, would be more desirable and cost only a fraction of the proposed project. The mine is really a gold mine and it appears unlikely that sufficient scheelite is present to make its recovery of commercial importance.

INTRODUCTION

The Early mine consists of the following patented claims: "George" placer and "Revel", "Louisa", "Early", "Revel No. 2", and "Felix" lodes, situated in secs. 20 and 21, T. 4 S., R. 19 E., M.D.B.&M., Mariposa

1/ Frank J. Wiebelt.

County, Calif. These claims are shown in figure 2.

The property is readily accessible by automobile from Mariposa, Calif., by following State Highway 140 northeasterly 5 miles to Acorn Lodge, then turn to the right and follow a paved Forest Service road 11.5 miles to end of pavement and continue on dirt road 2.5 miles to the Early mine.

The mine is owned by Robert H. Jackson and his wife, Edith E. Jackson, P. O. Box 142, Mariposa, Calif., who purchased it from Chas. Hulstedler of Mariposa, Calif., Mrs. J. Warford of Fresno, Calif., and Mrs. R. Silkwood of Mariposa, Calif., in July 1950. On Sept. 17, 1951 Russell J. Wilson obtained an option and lease on the property from the present owners.

Mr. Jackson accompanied the writer and gave freely all information he knew. He also helped with the sampling of the mill tailing ponds.

HISTORY

Very little is known of the history of the property. The mine has been idle for many years and the workings are badly caved. According to Mr. Jackson, the earliest history pertains to the Revel placer workings worked about 1890. In 1916 and early 1917 a Mr. Sessman ? of San Francisco, in partnership with George Yancy, prospected for several months and erected a 100-ton mill, the ore coming from the Yancy tunnel and Louisa shaft. The shaft is said to have been sunk to a depth of 55 feet on a 4-foot quartz ledge. The grade of ore is unknown and the values were in gold.

PHYSICAL FEATURES

The topography in the vicinity of the mine is rugged and the surface well timbered with yellow pine trees. A sufficient water supply for mine, mill and camp use is available at the property. The head of Sweetwater Creek is on the property.

The road to the mine is passable most of the year. Most of the precipitation is in the form of rain with some snow during the winter months.

The mine is situated approximately 4,100 feet above sea level. Electric power is not available at the mine.

LABOR AND LIVING CONDITIONS

One house, occupied throughout the year by Mr. Jackson and his family, is the sole dwelling on the premises. Accommodations for mine labor are available at Acorn Lodge. There are no nearby operating mines, and logging operations constitute the main source of employment.

DESCRIPTION OF THE DEPOSITS

The area in the vicinity of the mine is composed of granitic rock. Thick overburden covers most of the rock formation. The veins of the Early mine consist of gold-bearing quartz veins, which swell and pinch, in quartz diorite. The mine workings consist of numerous shafts, prospect holes, cuts and adits, most of which are badly caved.

The Isaacy tunnel (misnamed the Louisa in the application) which the applicant for the exploration aid desired to reopen, is badly caved and inaccessible and as it was driven as a crosscut to hit the vein, no inspection of the vein, encountered by this tunnel, was possible. Overburden covers the vein on the surface. According to the

owner, Mr. Jackson, this crosscut is said to extend 90 feet beyond its portal to the vein at which point a 45-foot winze was sunk and a 100-feet northerly and a 100-feet southerly drift was driven on the vein. The surface above the crosscut is fairly flat and the probable depth of the Yancy workings on the said vein only lie about 20 to 25 feet below the surface. The country rock is quartz diorite. The Yancy tunnel bears S 45° E.

An adit known as the Rodger tunnel lies about 150 feet northeasterly of the Yancy tunnel. This tunnel follows a quartz vein striking about S 82° W and dipping approximately 70° south. A short crosscut in this tunnel encountered a parallel quartz vein similar in strike and dip to the above vein from which considerable stoping was done. In these workings two isolated small areas contained a few specks of scheelite when lamped. According to the owner, a lessor shipped a few hundred pounds of scheelite from these two isolated areas. No commercial grade ore was left. The quartz vein varies from 2 inches to 1 foot in width.

Judging from the ultra-violet lamping of the Rodger tunnel workings on the vein, it appears quite probable that the Yancy tunnel may possibly contain a few small isolated areas in which scheelite does occur but probably not in sufficient tonnage to be commercial.

Mr. Jackson has specimens of scheelite bearing quartz and banded granitic aplite containing considerable scheelite which he collected from the mine dumps. The banded aplite contained quartz, feldspar, biotite and considerable scheelite. The dumps at the two tunnel portals consist of quartz-diorite. The vein material had been milled.

SAMPLES

No samples could be obtained from the inaccessible Yancy mine tunnel in which the proposed exploration would be conducted. Quartz veins in the nearby Rodger workings were lamped and only minute indications of presence of scheelite were indicated by the lamp.

Three samples of the mill tailings from each of the Rodger and Yancy workings and one of some tailings at the site of the old Yancy mill were taken. Analyses of these samples follows:

Sample No.	Length	Ounces Au/T	Ounces Ag/T	% WO_3	Location
1	1' 3"	0.21	0.30	*0.01	Yancy mill tailing pond.
2	1' 0"	0.75	1.75	*0.01	do
3	0' 9"	0.30	0.60	*0.01	do
4	1' 6"	0.70	1.30	*0.01	Rodger mill tailing.
5	1' 0"	0.255	0.35	*0.01	do
6	1' 0"	0.34	0.35	*0.01	do
7		0.29	0.50	*0.01	Tailings at Yancy millsite.

*Less than.

RECOMMENDATIONS AND CONCLUSIONS

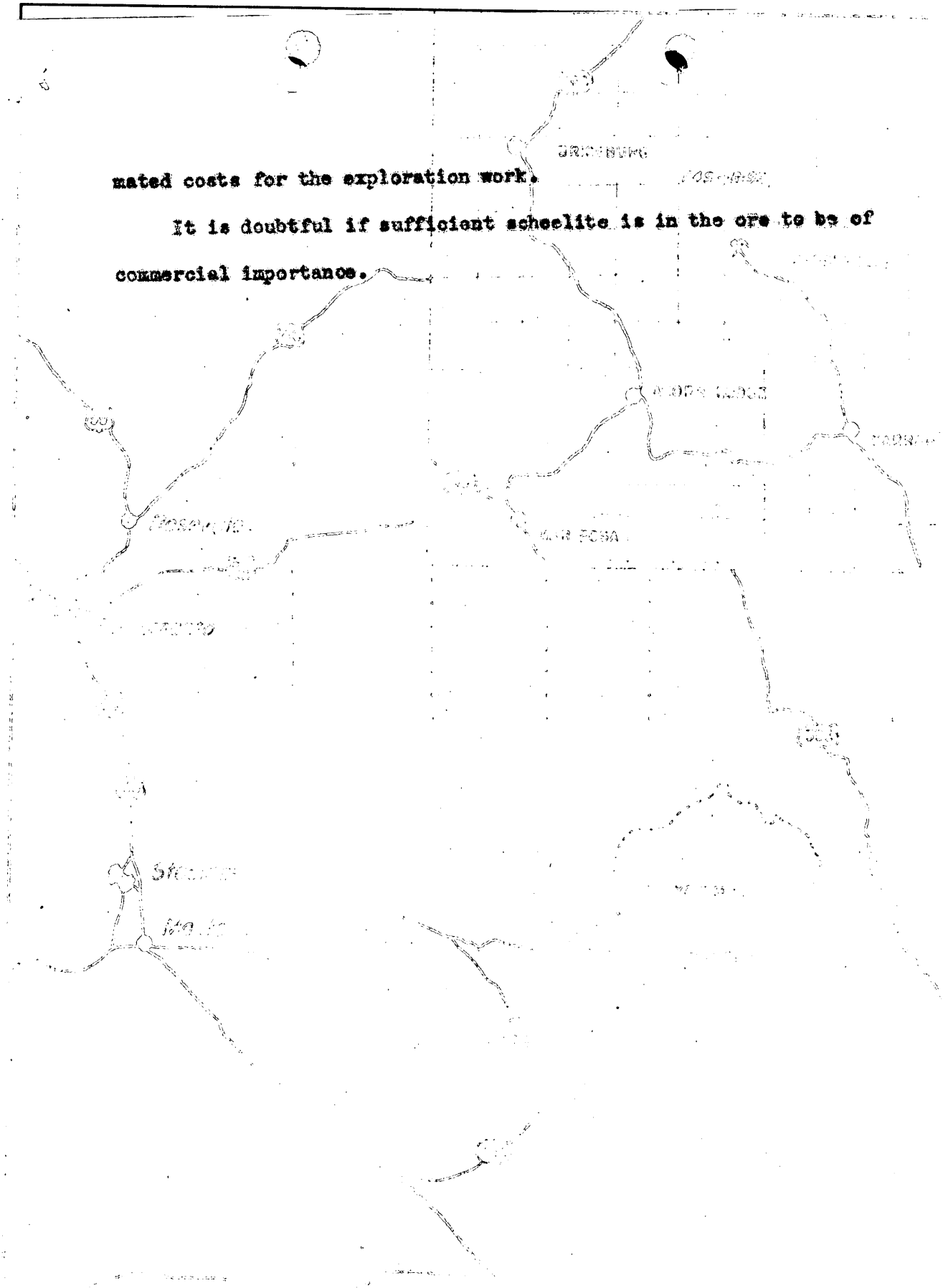
The analyses of samples taken from the mill tailing pond derived from material from the Yancy tunnel indicate that the tungstic acid content of the ore was very low.

The proposed exploration work in the Yancy tunnel (mismamed the Louisa tunnel in the application) is not warranted. The surface above the proposed exploration work in the tunnel is quite flat and it appears that the vein in the workings may be only about 20 feet below the surface. A stripping program of possibly a week very probably would provide more information than the much more expensive proposed project.

Stripping operations, to expose the vein, followed by careful sampling operations should cost only a fraction of the proposed acti-

mated costs for the exploration work.

It is doubtful if sufficient scheelite is in the ore to be of commercial importance.



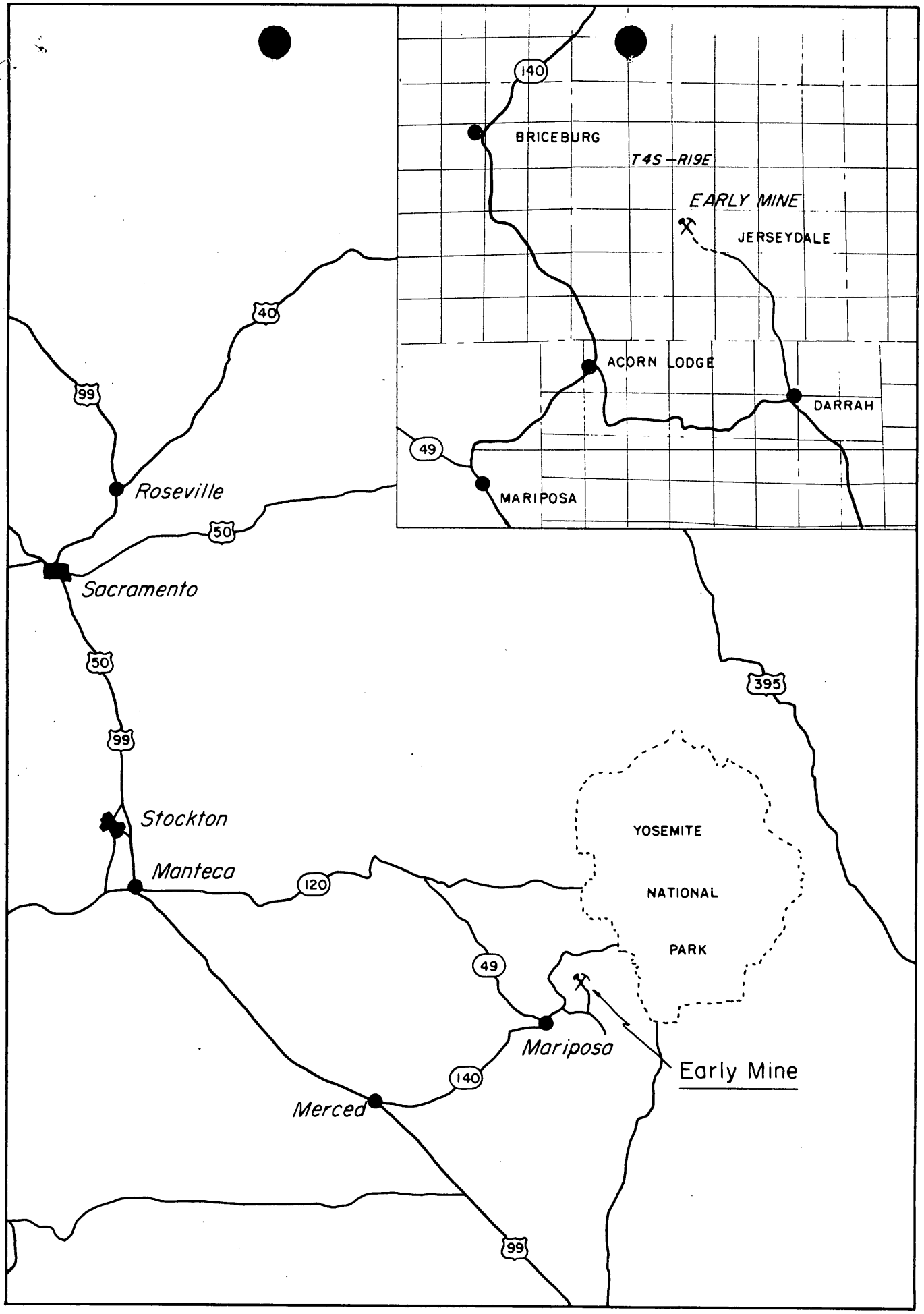


Figure 1-Location map, Early Mine, Mariposa County, California

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dma 21217
Metal or Mineral
Date Received 10-3-51
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 3 1951

RUSSELL J. WILSON
Garden Valley,
California
Box No. 1

Name and address of applicant

Date September 28, 1951

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By Reuben J. Nielson (Signature of authorized official)
	Operator
(Date)	SEP 28 1951
	(Title)

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

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

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
EL DORADO COUNTY, CALIF.

FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Sept. 28, 1951

Paragraph 1. (a). Please see attached photostatic copy of plat covering Mineral Survey #5771 made by U. S. Surveyor General's Office at San Francisco, California, dated January 15, 1925, Vol. 194, page 9.

(b) I am not the owner of the property. Attached is an original notarized copy of my lease on this property from the owners, Robert H. and Edith Jackson. There are no liens or encumbrances of any kind on the property. A copy of the Government's subordination agreement is also enclosed.

(c) The complete legal descriptions and map furnished as answer to question (a) also answers this question; both areas are the same.

2. (a) Tungstic Oxide and gold.

(b) I am enclosing a copy of a letter of Prof. Eliot Blackwelder, Geologist, expressing the opinion of Prof. Park, Mineralogist, both of Stanford University. The samples seen by Prof. Blackwelder and Prof. Park were from the dump at the Louisa workings. These workings consist of a tunnel said to be about two hundred feet long, together with a winz some forty feet deep. The tunnel is caved and the proposed work must be done before a face sample can be taken. The last work was done in 1917. It is said that there was four feet of ore in the face when work was stopped. The operation at that time was for gold only. On August 15th I selected a sample of what appeared to me to be a medium grade of ore from the dump. A copy of this assay is attached. It showed gold at 24.85 per oz. and Tungstic Oxide - 0.97. A copy of an assay secured by Mr. Jackson for Tungstic Oxide only shows 2.02. When Mr. Jackson took the property over he cleaned up around the old millsite the value in gold and silver on a 62 lb. lot showed value per ton of $675.54. A copy of this statement is attached.

None of these assays or letters need be returned.

Last week Mr. Jackson received first prize at the Mariposa County Fair in competition with a number of others entering Scheelite ore.

Paragraph 3.

(a) The work proposed is entirely exploratory. It is planned to clean out and timber a two hundred foot tunnel known as the Louisa tunnel, unwater a 40 ft. winz at the end of the tunnel sunk on the vein, sample the ore in place and possibly by diamond drilling and some mining, determine not only the value of the ore, but also determine whether there is sufficient ore to warrant the establishment of a mill for its treatment. The estimated cost of this work is $7,895.40. This cost is subsequently detailed in paragraph 7.

Paragraph 4.

A detailed map of the entire property is enclosed. It is from the dump of the Louisa tunnel that the samples heretofore described were taken. The tunnel is now caved and must be cleaned out and timbered. The tunnel is 200 ft. long with a winz where the tunnel bisects the vein. It is said the ore body is four feet wide at the face and in the winz.

Paragraph 5.

The property is easily accessible on a forest service road two miles from a paved county road. A geological map is enclosed. Mr. and Mrs. Jackson live on the property. There are however, no buildings or equipment of value to this operation. In paragraph 7 to follow I have listed all costs for the proposed operation.

Paragraph 6.

For the operation contemplated in this application no building or installations will be necessary. The men will probably live at Acorne Inn, some four miles away and drive to work. No boarding house or sleeping accommodations will be necessary.

Paragraph 7

ESTIMATED COSTS FOR EXPLORATION WORK AT LOUISA TUNNEL

Labor		
1 Foreman at 2.50 per hr., 42 days	$840.00	
1 Timberman" 1.75 " " 42 "	588.00	
1 Miner " 1.75 " " 42 "	588.00	
1 Mucker " 1.65 " " 42 "	554.40	
Engineering assistance	200.00	
		$2,770.40
Necessary expendable supplies		
Gas and Oil for Compressor $5 per day	210.00	
Deposit on P. L. Ins.	250.00	
Prelium on policy	250.00	
Contributions	50.00	
Powder & Fuse	200.00	
Timbering tunnell 200 ft. 8 x 8 Dry Fir timbers in 4 ft. sets will require 14,000 b.f. at $60 per M delivered	840.00	
Timbering and logging Winz if necessary	225.00	
Drill steel	50.00	
		2,075.00
Equipment to be purchased - none		--
Equipment rented from outside contractors		
1 compressor capable of handling 1 Jack hammer and 1 sump pump (estimated) $50 per month		100.00
Equipment owned by lessee that will be used on project		
200 ft. 4" pipe		
200 ft. of mine rail		
200 ft. of ventilating pipe		
Motor & blower		
2 ore cars		
2 wheel barrows		
Portable electric light plant		
Sampling equipment jaw		
Crusher & pulverizer		
Sump pump pneumatic or		
Centrifugal pump electric		
Electric tugger for use on winz		
First aid equipment & supplies		
		$4,945.40

Paragraph 7 (continued)

Brought forward	$4,945.40
including stretcher 250 ft. underground electric cable Timberman's swing saw	
Note: Instead of trying to develop a rental figure for this equipment I suggest the estimated cost of taking up the rail and the transporation of the other equipment to and from Black Oak to Mariposa, 135 miles, be the charge made. This cost is estimated at	200.00
Diamond Drilling	
If after cleaning out the tunnel, unwatering the winz, the showings are as reports indicate, I think before a mill is moved in, some diamond drilling should be undertaken. I would say from 400 to 600 ft. To establish a figure I am listing 500 ft. at $6.00 per ft.	3,000.00
	$ 8,145.40
Less: Deposit on Insurance Policy	250.00
	$ 7,895.40

Paragraph 8.

This question has been answered in detail in paragraph 7.

Paragraph 9.

All necessary items of cost have been listed in paragraph 7.

Paragraph 10 (a).

I am prepared to invest $2,000, if necessary, in the project.

(b) Yes.

Paragraph 11.

In answer to this question I might add that I have had some 20 years active mining experience, and have successfully operated the Black Oak Mine at Garden Valley, the Feliciana Mine some five miles from Mr. Jackson's property involved here. During the last war I mined chrome and sold to the Government through the Auburn, California, purchasing office. I am enclosing a photostatic copy of page from Geologic Guidebook published by the California Division of Mines, which describes the Black Oak operation.

P. S. After the foregoing application was typed I took it to your San Francisco office for criticism. One of your Engineers suggested perhaps it was weak on sampling, pointing out that, that much work would develop a good size dump which he thought should have been sampled. This is a good question. I would like to clarify the answer.

When the property was worked the ore body was put through a mill for gold recovery. The mill finally burned, the partners had trouble among themselves and the work was abandoned. Subsequently several tons of ore not milled were picked off the dump and put through another mill. We have about 1000 lbs of ore missed by everyone else, that reacts beautifully to the lamp. It was part of this lot that has just won first prize at the Mariposa County Fair. The excellent quality of this ore is the basis for my belief proper exploration is warranted.

Russell J. Nelson

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
EL DORADO COUNTY, CALIF.

FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Option and Lease between ROBERT H. JACKSON, his wife EDITH E. JACKSON, and RUSSELL J. WILSON, covering the EARLY MINE property located as follows:

Mineral Survey #5771 produced by U. S. Surveyor General's Office at San Francisco, Cal., dated Jan. 15, 1925, Vol. 194, page 9.

The lessor, Mr. Jackson and his wife agree to extend an option to the lessee Russell J. Wilson for a ninety day period to conclude preliminary tests, surveys, diamond drilling, etc., to determine as far as possible the extent and value of the deposit.

Should the lessee decide to work the property he may do so under the following terms and conditions:

1. The lease shall be for underground mineral rights only (see paragraph 2), the lessor however, agreeing to give the lessee the use of any necessary surface area for a mill site, tailings, pond and combination office and living quarters. All machinery and equipment placed on the property shall remain the property of the lessee and may be added to or taken away at his discretion.

In case of abandonment of the property all buildings to remain and become the property of the lessor.

2. Placer ground excluded unless permission is later given lessor by lessee for such operation. In such case the same royalties shall apply.

3. Royalties

The lessee shall pay 10% of all gross revenues from minerals until the sum of $60,000 has been paid. When $60,000 has been paid the lessee shall have a continuing right to mine this property when profitable, providing five per cent (5%) of all gross revenues received are paid to the lessor. All royalties are to be paid to the lessor as settlements are received by the lessee.

4. If before the entire $60,000 has been paid the lessor by lessee the government discontinues its price support and the market price of gold, tungsten or other minerals drops to a point where it again becomes unprofitable to mine, the lessee may discontinue work without prejudice to his lease, and the lease shall lie dormant until such time as the operation seems profitable under the then operation costs. If and when these circumstances should occur and should the lessee not start

work, then after a sixty day notice of such conditions in writing by the lessor to the lessee brings no action on the part of the lessee, the lease, in its entirety, shall be considered cancelled.

5. Interest under this lease may be transferred providing at least fifty-one per cent (51%) remains in the hands of Russell J. Wilson

6. The lessor shall have the right to inspect the books and records of the operation at any and all reasonable times.

7. It is understood the work will be carried on in a minerlike fashion. It is the intention of the lessee that, should the property warrant, to move his mill to the property, thereby cutting out the cost of hauling ore to the nearest tungsten mill now located at Bishop, California.

DATED: Sept. 17, 1951.

Robert F. Jackson

Edyth E. Jackson
Lessor

Russell J. Wilson
Lessee

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Mariposa, State of California, described in a certain Exploration Project Contract dated _____, 195__, between _____,

the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Sept 18 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 30th day of September, 195.1.

Robert H. Jackson and
Elizabeth E. Jackson

U. S. GOVERNMENT PRINTING OFFICE 940768

Kelsey was founded in 1851. James Marshall's last days were spent there. A building on the property of his Gray Eagle mine once housed a pioneer museum but the exhibits have been moved to Columbia and other places. Only a huge arrastre-stone remains of the old exhibits once displayed there. The adit of the Gray Eagle lode mine is immediately behind the museum building. It never paid, and Marshall died without ever having a hand in a really successful mining venture.

North of Kelsey, a distance of 1.4 miles, a road leads off to the east through Spanish Flat and Meadowbrook, ending at Georgetown. Spanish Flat, more recently known as Louisville, was one of a great many placer camps of the vicinity dating from about 1850. The Alhambra and Lost Lode mines are located close to the Louisville road. They are shallow open cut and tunnel workings in stringer lodes. Both are idle.

Garden Valley, originally named Johntown, is 5.5 miles northwest of Kelsey. Johntown was a placer camp which later became a vegetable growing center, hence the present name. The entire area in which Garden Valley, Spanish Flat, Georgetown, and Greenwood are located is one of the most beautiful landscapes in California and is bound to find increasing favor as a recreational region. The broad rolling meadowlands are bordered by flowing streams and beautiful stands of coniferous trees. The primitive area of the Rubicon River northeast of Georgetown is almost untouched by the inroads of man.

Half a mile beyond Garden Valley, a road to Meadowbrook leads past the Black Oak mine near the Garden Valley school. The Black Oak has been one of the best mines in El Dorado County, having produced over a million dollars in gold. The veins are on the contact of Mariposa slate and greenstone and are the same series as in the Alpine and Beebe mines to the north in Georgetown. The workings are rather shallow but the drifts and crosscuts are extensive.

Georgetown, 7.3 miles from Garden Valley, looks much as it did in the '50's. Mining activity there was initiated in 1849 by a party of placer miners from Oregon, and the site was first known as Growlersburg. Several lode mines helped keep the town active after the placers were exhausted. Lumbering and fruit-growing are now the principal activities. The main street has many well preserved buildings such as the Masonic Hall erected in 1852 and the Balsar House dating from 1859. Edwin Markham taught school in Georgetown in the 1880's. Like those of many other Mother Lode towns, Georgetown's pioneers rallied to the Union side during the Civil War. An armory was built in 1862 which is still standing. The El Dorado County Chamber of Commerce has erected suitable historical markers at sites of special interest. The Alpine at the center of town and the Beebe at the northern edge are the best known of the Georgetown mines. The Alpine was first developed in the 1860's and was extensively worked during the 1930's. The Beebe is largely a twentieth-century development. Both produced occasional bonanza pay streaks but gold values were spotty. The Alpine shaft is less than 500 feet deep; the Beebe has a large open cut and a 500-foot shaft.

Five and one-half miles west of Georgetown is the crossroads hamlet of Greenwood which once boasted several wineries and was a supply center for many adjacent placer districts. A large lumber yard is the principal activity there now. Numerous placer and hydraulic diggings can be seen along the road between Georgetown and Greenwood. The bedrock is Mariposa slate and greenstone of uncertain age but there are few good exposures because of the deeply weathered nature of the bedrock and the soil mantle. The road is bordered by rank growths of yellow-flowering Spanish broom, an introduced plant.

A mile north of Greenwood at the Greens Mill road junction are good exposures of well bedded Mariposa slate. The relation of the bedding to the slaty cleavage can easily be seen there. A number of small folds within the Mariposa are evident in the road cuts along the Greens Mill road.

Less than half a mile from Greens Mill junction, a paved road turns off to the north which leads to Spanish Dry Diggin's and ultimately to other old camps on the North Fork of the American River. Spanish Dry Diggin's was discovered by a group of Spaniards under General Pico in 1848. The placer mines were soon superseded by the "seam" or stringer-load mines such as the Grit and the Barr. There has been a resumption of mining activity at the Grit or Littycote mine. The Grit had an early production of over $500,000 and the Barr over $300,000. A mass of gold weighing 201 troy ounces was taken from the Grit mine in August 1865. This was donated to the museum of the State Division of Mines in honor of Jules Fricot by his heir Mrs. Marie Fricot Berton and is now on exhibition in the Ferry Building, San Francisco.

One mile beyond the Greens Mill road junction is a fault contact between Calaveras rocks and serpentine. The Calaveras there is composed of mica schist, chert and basic intrusives such as basalt. Another small body of serpentine occurs at the Penobscot farm 1.3 miles farther west. From the Penobscot farm west to Cool the basement rocks are mainly Calaveras schist, chert, and meta-basalt and greenstones of doubtful age. These are intruded locally by small bodies of serpentine. The Penobscot farm is a picturesque, well kept property surrounded by orchards and grazing land and is the principal landmark between Greenwood and Cool.

Resuming the way up Highway 49 from Cool, the route is through serpentine and then along a narrow limestone belt bounded on both sides by greenstones of uncertain age. An enormous thickness of green meta-volcanics is exposed between the limestone quarries and Auburn. The North Fork of the American River has cut a tremendous gorge into this rock and the exposures in the river bed and the road cuts leading down to it are excellent. This meta-volcanic series may be a northern facies of the Logtown Ridge meta-volcanics but accurate correlation has not yet been established.

FOR .1-51-K

RETURNS OF CONCENTRATES

San Francisco, Calif. March 8, 1951

RECEIVED OF R. H. JACKSON & EDITH JACKSON

By MIDPINES, CALIFORNIA

AMERICAN SMELTING AND REFINING COMPANY

SELBY SMELTING WORKS
405 MONTGOMERY ST.

SELBY LOT 5443

Shipping Point
MIDPINES, CALIF.

TRUCK

Mark
Date Rec'd 11-24-50
Released 2-27-51

1 Can	Weighing gross	75	lbs.
	Tare	10	lbs.
		65	lbs.
	Moisture 4.30 %	3	lbs.
	Samples		lbs.
	NET DRY WEIGHT	62	lbs.

ASSAYS and ANALYSIS			PERCENTAGES and PRICES	DEBITS		CREDITS	
Gold	20.81	ozs. p. t.	Less - % @ $32.81775			682	94
Silver	10.50	ozs. p. t.	Less 1 Oz. % @ .80			7	60
Lead		%	Less units less % @ per lb. less				
Copper		%	Less units @ per lb. less				
Insol		%					
Iron		%					
Zinc		%					
Sulphur		%					
Lime		%					
Arsenic		%					
Antimony		%					
Tin		%					
Bismuth		%					
			Base Charge	15	00		
			Total	15	00	690	54
			Value Per Ton			675	54
			Value of 62 lbs. @ $675.54 per ton			20	94
			Sampling and Assaying	12	50		
			Freight				
			Total	12	50		
			NET PROCEEDS			8	44

CHECK ISSUED TO: ABOVE

IMPORTANT!
If not advised to the contrary within days from date we shall assume that returns are satisfactory and the product covered by this statement will be placed in process. — American Smelting & Refining Co.

3026

ELIOT BLACKWELDER
POSTOFFICE BOX N
STANFORD, CALIFORNIA

January 13, 1951.

Mrs. Edith Jackson,
Midpines,
Mariposa County,
Calif.

Dear Mrs. Jackson:-

After some unavoidable delay, I have had those ore specimens examined by Professor Park, who is our expert on such matters. He says there is plenty of scheelite in all three specimens, indicating a good grade of tungsten ore. If you have a large enough tonnage of this material, so situated that it can be mined readily, it may prove to be valuable property. We hope so for your sake.

Sincerely yours,

Eliot Blackwelder

EB:lr Of course you will quote this for commercial purposes.

COPY
COSSUTT & CO., INC.

REPORT OF ASSAY

ABBOT A. HANKS, INC.

ASSAYERS, CHEMISTS, ENGINEERS
624 SACRAMENTO STREET

SAN FRANCISCO, January 2, 1951

SAMPLE OF ORE

DEPOSITED BY R. H. Jackson
Early Mine, Midpines, California

Labty. No.	Mark	GOLD, per ton of 2,000 lbs. Troy Ounces	Value @ $35.00 oz.	SILVER, per ton of 2,000 lbs. Troy Ounces	Value @ $	Percentages
25490						Tungstic Oxide 2.02

ABBOT A. HANKS, INC.

G. T. Bee

pf

REPORT OF ASSAY

ABBOT A. HANKS, INC.

ASSAYERS, CHEMISTS, ENGINEERS
624 SACRAMENTO STREET
SAN FRANCISCO.

August 15, 1951

DEPOSITED BY Russell J. Wilson
Garden Valley, El Dorado Co., Calif.

SAMPLE OF ORE

Labty. No.	Mark	GOLD, per ton of 2,000 lbs. Troy Ounces	Value @ $35.00 oz.	SILVER, per ton of 2,000 lbs. Troy Ounces	Value @ $	Percentages
33390		.71	24.85			Tungstic Oxide = 0.97

bob

ABBOT A. HANKS, INC.
Original Signed by
P. T. BEE

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George B. Holderer DATE: October 15, 1951

FROM : T. P. Thayer Thayer

SUBJECT: DMA-2127 - Tungsten. Early Mine, Mariposa County, Calif.
R. J. Wilson, Garden Valley, Calif.

Apparently specimens of good scheelite ore have been picked up on the mine dump, C. F. Park being a reliable witness on mineral identification. There is no information on this mine in our tungsten files, the mine having been worked only for gold and silver.

More information should be gotten on the material in the dump before a field examination is made, as the dump appears to be the key to the whole problem. The field office raised this question, and I do not believe it has been answered satisfactorily yet. Even though the ore was milled for gold, any tailings left should contain the original scheelite, and the tailings dump should be sought out and carefully checked.

When answers on these points have been received, a field referral would appear to be in order.

Thayer's Report, prior to
Field team Report.

ME[illegible]0

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 12/26/51

REFERRED TO:

1. Operating Comm.
2.
3.
4.

FOR:

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

REMARKS:

Check (X) before the items needing attention.

R. E. ADAMS GN
Initials of sender.

GPO 16—63815-1

OFFICE OF THE ADMINISTRATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

Finished & mailed 1/2/52
Docket & Copies
Returned 1/2/52

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 26 1951

1012 Flood Bldg.
870 Market St.
San Francisco 20, 1951

December 20, 1951

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: DMA-2127, Tungsten; Russell J. Wilson, Box #1, Garden Valley, California; Early Mine

Reference is to Mr. Tom Lyon's letter of November 2 to me, referring the subject docket to Region III Field Team for further information.

Attached are four copies of a report, DMA-2127, Early Mine, Mariposa County, Calif., by Frank J. Wiebelt, Mining Engineer, U. S. Bureau of Mines, dated December 13, 1951.

According to the examining engineer's report, veins of the Early Mine are gold-bearing quartz in quartz-diorite. Small isolated bunches of scheelite appear to be present in some of the veins. Analyses of samples from the mill tailing pond indicate presence of less than 0.01% WO_3 content.

The examining engineer does not believe that the exploration project proposed is warranted. He also states that stripping operations to expose the vein, followed by careful sampling operations, would cost only a fraction of the estimated costs of the exploration work. However, he is doubtful that sufficient scheelite is present in the quartz to warrant the work.

The docket is returned herewith.

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

Attachments

Copy to: E. H. Bailey, U.S.G.S.

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-2127, Early Mine

Mariposa County, Calif.

Frank J. Wiebelt, Mining Engineer
U. S. Bureau of Mines

December 13, 1951

EARLY MINE
Mariposa County, Calif.

SUMMARY

A Bureau of Mines engineer[1] examined the Early Mine on Nov. 14, 1951. The examination was made pursuant to an "Application for aid for an Exploration Project" under the Defense Production Act of 1950, by Russell J. Wilson of Garden Valley, Calif.

The Early mine is approximately 4 miles northeasterly of Acorn Lodge, on State Highway 140, which is 5 miles northeast of Mariposa, Calif.

The veins of the Early mine consist of gold bearing quartz in quartz-diorite. Small isolated bunches of scheelite appear to be present in some of the veins. Analyses of samples from the mill tailing ponds indicate presence of less than 0.01% WO_3 content.

The proposed exploration work is not warranted. Stripping operations, to expose the vein, followed by careful sampling operations, would be more desirable and cost only a fraction of the proposed project. The mine is really a gold mine and it appears unlikely that sufficient scheelite is present to make its recovery of commercial importance.

INTRODUCTION

The Early mine consists of the following patented claims: "George" placer and "Revel", "Louisa", "Early", "Revel No. 2", and "Felix" lodes, situated in secs. 20 and 21, T. 4 S., R. 19 E., M.D.B.&M., Mariposa

1/ Frank J. Wiebelt.

County, Calif. These claims are shown in figure 2.

The property is readily accessible by automobile from Mariposa, Calif., by following State Highway 140 northeasterly 5 miles to Acorn Lodge, then turn to the right and follow a paved Forest Service road 11.3 miles to end of pavement and continue on dirt road 2.3 miles to the Early mine.

The mine is owned by Robert H. Jackson and his wife, Edith E. Jackson, P. O. Box 142, Mariposa, Calif., who purchased it from Chas. Hulstedler of Mariposa, Calif., Mrs. J. Warford of Fresno, Calif., and Mrs. R. Silkwood of Mariposa, Calif., in July 1950. On Sept. 17, 1951 Russell J. Wilson obtained an option and lease on the property from the present owners.

Mr. Jackson accompanied the writer and gave freely all information he knew. He also helped with the sampling of the mill tailing ponds.

HISTORY

Very little is known of the history of the property. The mine has been idle for many years and the workings are badly caved. According to Mr. Jackson, the earliest history pertains to the Revel placer workings worked about 1890. In 1916 and early 1917 a Mr. Sessman ? of San Francisco, in partnership with George Yancy, prospected for several months and erected a 100-ton mill, the ore coming from the Yancy tunnel and Louisa shaft. The shaft is said to have been sunk to a depth of 55 feet on a 4-foot quartz ledge. The grade of ore is unknown and the values were in gold.

PHYSICAL FEATURES

The topography in the vicinity of the mine is rugged and the surface well timbered with yellow pine trees. A sufficient water supply for mine, mill and camp use is available at the property. The head of Sweetwater Creek is on the property.

The road to the mine is passable most of the year. Most of the precipitation is in the form of rain with some snow during the winter months.

The mine is situated approximately 4,100 feet above sea level. Electric power is not available at the mine.

LABOR AND LIVING CONDITIONS

One house, occupied throughout the year by Mr. Jackson and his family, is the sole dwelling on the premises. Accommodations for mine labor are available at Acorn Lodge. There are no nearby operating mines, and logging operations constitute the main source of employment.

DESCRIPTION OF THE DEPOSITS

The area in the vicinity of the mine is composed of granitic rock. Thick overburden covers most of the rock formation. The veins of the Early mine consist of gold-bearing quartz veins, which swell and pinch, in quartz diorite. The mine workings consist of numerous shafts, prospect holes, cuts and adits, most of which are badly caved.

The Yancy tunnel (misnamed the Louisa in the application) which the applicant for the exploration aid desired to reopen, is badly caved and inaccessible and as it was driven as a crosscut to hit the vein, no inspection of the vein, encountered by this tunnel, was possible. Overburden covers the vein on the surface. According to the

owner, Mr. Jackson, this crosscut is said to extend 90 feet beyond its portal to the vein at which point a 45-foot winze was sunk and a 100-foot northerly and a 100-foot southerly drift was driven on the vein. The surface above the crosscut is fairly flat and the probable depth of the Yancy workings on the said vein only lie about 20 to 25 feet below the surface. The country rock is quartz diorite. The Yancy tunnel bears S 45° E.

An adit known as the Rodger tunnel lies about 150 feet northeasterly of the Yancy tunnel. This tunnel follows a quartz vein striking about S 82° W and dipping approximately 70° south. A short crosscut in this tunnel encountered a parallel quartz vein similar in strike and dip to the above vein from which considerable stoping was done. In these workings two isolated small areas contained a few specks of scheelite when lamped. According to the owner, a leaser shipped a few hundred pounds of scheelite from these two isolated areas. No commercial grade ore was left. The quartz vein varies from 2 inches to 1 foot in width.

Judging from the ultra-violet lamping of the Rodger tunnel workings on the vein, it appears quite probable that the Yancy tunnel may possibly contain a few small isolated areas in which scheelite does occur but probably not in sufficient tonnage to be commercial.

Mr. Jackson has specimens of scheelite bearing quartz and banded granitic aplite containing considerable scheelite which he collected from the mine dumps. The banded aplite contained quartz, feldspar, biotite and considerable scheelite. The dumps at the two tunnel portals consist of quartz-diorite. The vein material had been milled.

SAMPLES

No samples could be obtained from the inaccessible Yancy mine tunnel in which the proposed exploration would be conducted. Quartz veins in the nearby Rodger workings were lamped and only minute indications of presence of scheelite were indicated by the lamp.

Three samples of the mill tailings from each of the Rodger and Yancy workings and one of some tailings at the site of the old Yancy mill were taken. Analyses of these samples follows:

Sample No.	Length	Ounces Au/T	Ounces Ag/T	% WO_3	Location
1	1' 3"	0.21	0.30	*0.01	Yancy mill tailing pond.
2	1' 0"	0.73	1.75	*0.01	do
3	0' 9"	0.30	0.60	*0.01	do
4	1' 6"	0.70	1.90	*0.01	Rodger mill tailing.
5	1' 0"	0.255	0.35	*0.01	do
6	1' 0"	0.34	0.35	*0.01	do
7		0.29	0.30	*0.01	Tailings at Yancy millsite.

*Less than.

RECOMMENDATIONS AND CONCLUSIONS

The analyses of samples taken from the mill tailing pond derived from material from the Yancy tunnel indicate that the tungstic acid content of the ore was very low.

The proposed exploration work in the Yancy tunnel (misnamed the Louisa tunnel in the application) is not warranted. The surface above the proposed exploration work in the tunnel is quite flat and it appears that the vein in the workings may be only about 20 feet below the surface. A stripping program of possibly a week very probably would provide more information than the much more expensive proposed project.

Stripping operations, to expose the vein, followed by careful sampling operations should cost only a fraction of the proposed esti-

mated costs for the exploration work.

It is doubtful if sufficient scheelite is in the ore to be of commercial importance.

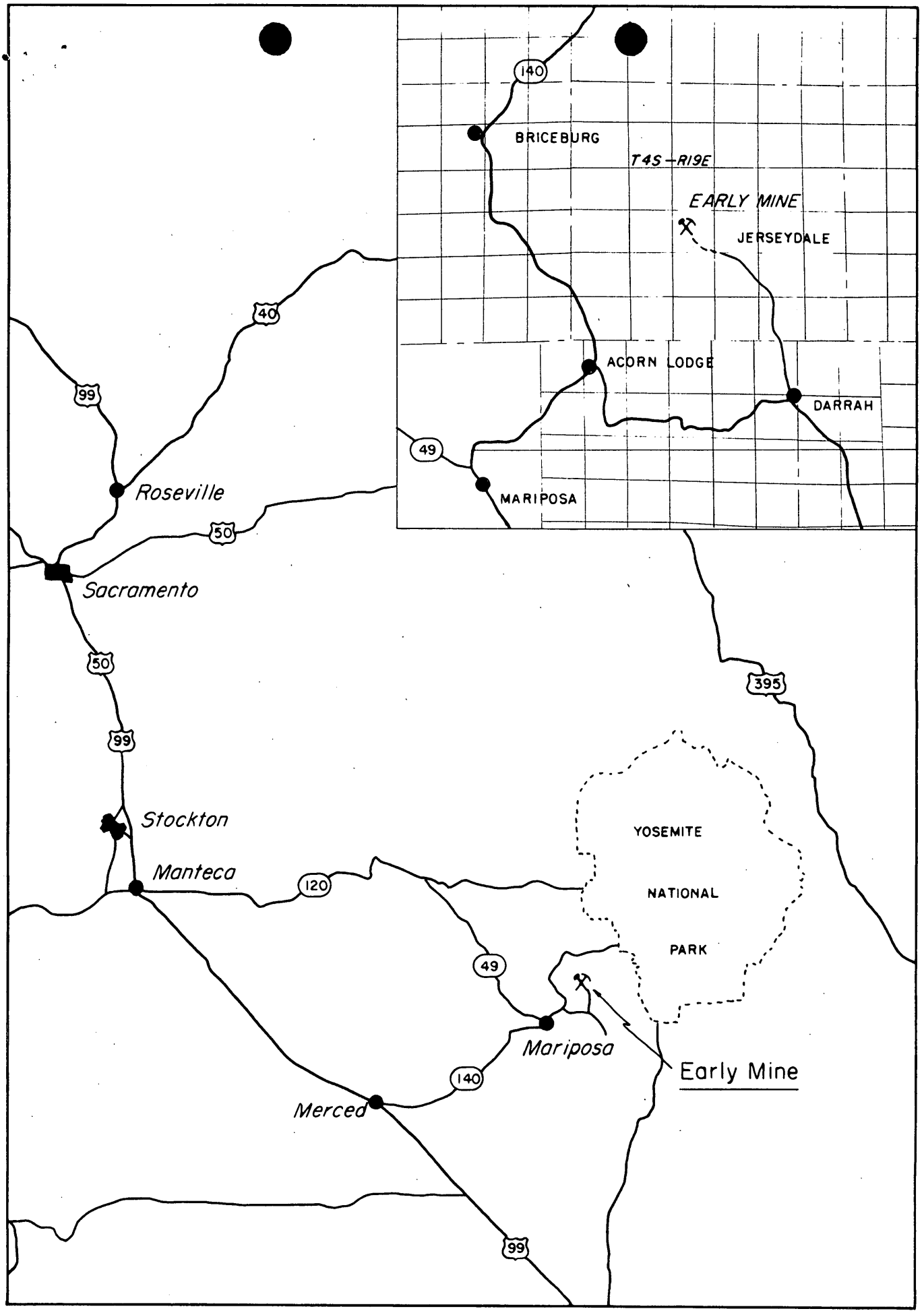


Figure 1-Location map, Early Mine, Mariposa County, California

Index of File to Field Team Region III
DMA 2127- Tungsten

1 copy MF-103 with attached sheets.
1 copy lease Agreement
1 copy Landlord subordination
1 copy A. S. & R. Assays
1 copy Abbot A. Hanks Assays dated 1/2/51
1 copy Abbot A. Hanks Assays dated 8/15/51
1 copy Photostate of letter to Mrs. Jackson
1 copy Feliciana Mtn Quadrangle
1 copy Page from Geologic Guidebook
1 copy Claim map

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 2127

To: Reports and Records Branch

From: Ferro-Alloys Branch

Date: October 29, 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to Field Team, Region III

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

FILE COPY 340
SURNAME:

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

Thayer
Holden
Thayer
Moore

NOV 2 1951

G. E. C.

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

Subject: Russell J. Wilson
Garden Valley, California
Box #1
Early Mine
DMA-2127, Tungsten

Dear Mr. Miller:

The above docket is being referred to you for your study. We would like to have the mine and tailings dumps sampled. They probably contain less than 700 tons of material but would indicate the possibility of ore in place.

We suggest that an exploration program consisting of several steps be presented to Mr. Wilson for his approval. This program would consist of the following.

1- Cleaning out and retimbering 200' of drift, unwatering of winze, and sampling drift and winze.

2- Either drilling or drifting.

Diamond drilling of scheelite in quartz may give poor results even with NX bits. If the ore in the face of the drift is good and backs off sufficient depth, the drift might be extended 100 feet. Mr. Wilson wants to determine if there is sufficient ore to warrant a mill. We feel the program is too small to prove the required tonnage. This should be discussed.

If the entrance to the tunnel begins in the vein, we would like the vein sampled. The applicant has submitted a claim map, but no geological or topographical maps. Therefore, it is impossible for

this office to determine the best approach to proving up a maximum tonnage of ore.

Other points which we would like investigated are: (1) compressor rental at $50.00 per month (2) estimated $6 per foot of diamond drilling which seems high (3) rental of applicant's equipment to the project as part of his 25%.

Very truly yours,

Signed

Tom Lyon, Chairman
Coordinating Committee

Enclosures

Bureau of Mines

Geological Survey

CHJacoby:ll 10/29/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Mr. Lemmon
Mr. Geehan

340
FILE COPY
SURNAME:

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

Thayer
Holderer
Jay
Thayer
Mdm

NOV 2 1951

Mr. Russell J. Wilson
Box #1
Garden Valley, California

In reply please refer to
DMA-2127, Tungsten

Dear Mr. Wilson:

Your application has been referred to the field for additional information. We suggest that you contact Mr. H. C. Miller, Executive Officer, DMA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco, California, and offer him whatever assistance he may require.

Very truly yours,

signed 11/2
cc

Tom Lyon, Director
Supply Division

CHJacoby:ll 10/29/51

CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Field Team, Region III

NOV 21 1951

Mr. H. C. Miller, Executive Officer
DMA Field Team, Region III
1012 Flood Building
870 Market Street
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Box #1
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10/29/51

Mr. Russell J. Wilson
Box #1
Garden Valley, California

In reply please refer to
DMA-2127, Tungsten

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Very truly yours,

Signed
Tom Lyon, Director
Supply Division

CHJAcoby:ll 10/29/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer
Field Team, Region III

Mr. Russell J. Wilson
Box No. One
Garden Valley, California

Subject: DMA-2127
Re: Exploration Loan
George Placer & Revel, Louisa, Early, Revel #2 and Felix Lodes

My dear Mr. Wilson:

This will acknowledge receipt of your application dated September 28, 1951for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMA-2127 and referred to the Ferro-Alloys Branch.

Kindly refer to DMA-2127 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Reports and Records Unit

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Mariposa, State of California, described in a certain Exploration Project Contract dated _____, 195__, between _____, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Sept. 18, 1957, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 30th day of September, 1961

Robert H. Jackson

Edith E. Jackson

U. S. GOVERNMENT PRINTING OFFICE 940768

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dmd 21217
Metal or Mineral
Date Received 10-3-51
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 3 1951

RUSSELL J. WILSON
Garden Valley,
California
Box No. 1

Name and address of applicant

Date September 28, 1951

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By Russell J. Nelson (Signature of authorized official)
	Operator
(Date)	SEP 28 1951
	(Title)

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

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

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
EL DORADO COUNTY, CALIF.

FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Sept. 28, 1951

Paragraph 1. (a). Please see attached photostatic copy of plat covering Mineral Survey #8771 made by U. S. Surveyor General's Office at San Francisco, California, dated January 15, 1928, Vol. 194, page 9.

(b) I am not the owner of the property. Attached is an original notarized copy of my lease on this property from the owners, Robert H. and Edith Jackson. There are no liens or encumbrances of any kind on the property. A copy of the Government's subordination agreement is also enclosed.

(c) The complete legal descriptions and map furnished as answer to question (a) also answers this question; both areas are the same.

2. (a) Tungstic Oxide and gold.

(b) I am enclosing a copy of a letter of Prof. Eliot Blackwelder, Geologist, expressing the opinion of Prof. Park, Mineralogist, both of Stanford University. The samples seen by Prof. Blackwelder and Prof. Park were from the dump at the Louisa workings. These workings consist of a tunnel said to be about two hundred feet long, together with a winz some forty feet deep. The tunnel is caved and the proposed work must be done before a face sample can be taken. The last work was done in 1917. It is said that there was four feet of ore in the face when work was stopped. The operation at that time was for gold only. On August 15th I selected a sample of what appeared to me to be a medium grade of ore from the dump. A copy of this assay is attached. It showed gold at 24.85 per oz. and Tungstic Oxide - 0.97. A copy of an assay secured by Mr. Jackson for Tungstic Oxide only shows 2.02. When Mr. Jackson took the property over he cleaned up around the old millsite the value in gold and silver on a 62 lb. lot showed value per ton of $675.54. A copy of this statement is attached.

None of these assays or letters need be returned.

Last week Mr. Jackson received first prize at the Mariposa County Fair in competition with a number of others entering Scheelite ore.

Paragraph 3.

(a) The work proposed is entirely exploratory. It is planned to clean out and timber a two hundred foot tunnel known as the Louisa tunnel, unwater a 60 ft. winz at the end of the tunnel sunk on the vein, sample the ore in place and possibly by diamond drilling and some mining, determine not only the value of the ore, but also determine whether there is sufficient ore to warrant the establishment of a mill for its treatment. The estimated cost of this work is $7,095.40. This cost is subsequently detailed in paragraph 7.

Paragraph 4.

A detailed map of the entire property is enclosed. It is from the dump of the Louisa tunnel that the samples heretofore described were taken. The tunnel is now caved and must be cleaned out and timbered. The tunnel is 200 ft. long with a winz where the tunnel bisects the vein. It is said the ore body is four feet wide at the face and in the winz.

Paragraph 6.

The property is easily accessible on a forest service road two miles from a paved county road. A geological map is enclosed. Mr. and Mrs. Jackson live on the property. There are however, no buildings or equipment of value to this operation. In paragraph 7 to follow I have listed all costs for the proposed operation.

Paragraph 6.

For the operation contemplated in this application no building or installations will be necessary. The men will probably live at Acorne Inn, some four miles away and drive to work. No boarding house or sleeping accommodations will be necessary.

Paragraph 7

ESTIMATED COSTS FOR EXPLORATION WORK AT LOUISA TUNNEL

Labor		
1 Foreman at 2.50 per hr., 42 days	$840.00	
1 Timberman" 1.75 " " 42 "	588.00	
1 Miner " 1.75 " " 42 "	588.00	
1 Mucker " 1.65 " " 42 "	554.40	
Engineering assistance	200.00	
		$2,770.40
Necessary expendable supplies		
Gas and Oil for Compressor $5 per day	210.00	
Deposit on P. L. Ins.	250.00	
Prelium on policy	250.00	
Contributions	50.00	
Powder & Fuse	200.00	
Timbering tunnell 200 ft. 8 x 8 Dry Fir timbers in 4 ft. sets will require 14,000 b.f. at $60 per M delivered	840.00	
Timbering and logging Winz if necessary	225.00	
Drill steel	50.00	
		2,075.00
Equipment to be purchased - none		--
Equipment rented from outside contractors		
1 compressor capable of handling 1 Jack hammer and 1 sump pump (estimated) $50 per month		100.00
Equipment owned by lessee that will be used on project		
200 ft. 4" pipe		
200 ft. of mine rail		
200 ft. of ventilating pipe		
Motor & blower		
2 ore cars		
2 wheel barrows		
Portable electric light plant		
Sampling equipment jaw		
Crusher & pulverizer		
Sump pump pneumatic or		
Centrifugal pump electric		
Electric tugger for use on winz		
First aid equipment & supplies		
		$4,945.40

Paragraph 7 (continued)

Brought forward	$4,965.40
including stretcher 250 ft. underground electric cable Timberman's swing saw	
Note: Instead of trying to develop a rental figure for this equipment I suggest the estimated cost of taking up the rail and the transportation of the other equipment to and from Black Oak to Mariposa, 135 miles, be the charge made. This cost is estimated at	200.00
Diamond Drilling	
If after cleaning out the tunnel, unwatering the wing, the showings are as reports indicate, I think before a mill is moved in, some diamond drilling should be undertaken. I would say from 400 to 600 ft. To establish a figure I am listing 500 ft. at $6.00 per ft.	3,000.00
	$ 8,165.40
Less: Deposit on Insurance Policy	250.00
	$ 7,895.40

Paragraph 8.

This question has been answered in detail in paragraph 7.

Paragraph 9.

All necessary items of cost have been listed in paragraph 7.

Paragraph 10 (a).

I am prepared to invest $2,000, if necessary, in the project.

(b) Yes.

Paragraph 11.

In answer to this question I might add that I have had some 20 years active mining experience, and have successfully operated the Black Oak Mine at Garden Valley, the Feliciana Mine some five miles from Mr. Jackson's property involved here. During the last war I mined chrome and sold to the Government through the Auburn, California, purchasing office. I am enclosing a photostatic copy of page from Geologic Guidebook published by the California Division of Mines, which describes the Black Oak operation.

P. S. After the foregoing application was typed I took it to your San Francisco office for criticism. One of your Engineers suggested perhaps it was weak on sampling, pointing out that, that much work would develop a good size dump which he thought should have been sampled. This is a good question. I would like to clarify the answer.

When the property was worked the ore body was put through a mill for gold recovery. The mill finally burned, the partners had trouble among themselves and the work was abandoned. Subsequently several tons of ore not milled were picked off the dump and put through another mill. We have about 1000 lbs of ore missed by everyone else, that reacts beautifully to the lamp. It was part of this lot that has just won first prize at the Mariposa County Fair. The excellent quality of this ore is the basis for my belief proper exploration is warranted.

Russell J. Dunlap

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
EL DORADO COUNTY, CALIF.

FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Option and Lease between ROBERT H. JACKSON, his wife EDITH E. JACKSON, and RUSSELL J. WILSON, covering the EARLY MINE property located as follows:

Mineral Survey #5271 produced by U. S. Surveyor General's Office at San Francisco, Cal.; dated Jan. 15, 1925, Vol. 194, page 9.

The lessor, Mr. Jackson and his wife agree to extend an option to the lessee Russell J. Wilson for a ninety day period to conclude preliminary tests, surveys, diamond drilling, etc., to determine as far as possible the extent and value of the deposit.

Should the lessee decide to work the property he may do so under the following terms and conditions:

1. The lease shall be for underground mineral rights only (see paragraph 2), the lessor however, agreeing to give the lessee the use of any necessary surface area for a mill site, tailings, pond and combination office and living quarters. All machinery and equipment placed on the property shall remain the property of the lessee and may be added to or taken away at his discretion.

In case of abandonment of the property all buildings to remain and become the property of the lessor.

2. Placer ground excluded unless permission is later given lessor by lessee for such operation. In such case the same royalties shall apply.

3. Royalties

The lessee shall pay 10% of all gross revenues from minerals until the sum of $60,000 has been paid. When $60,000 has been paid the lessee shall have a continuing right to mine this property when profitable, providing five per cent (5%) of all gross revenues received are paid to the lessor. All royalties are to be paid to the lessor as settlements are received by the lessee.

4. If before the entire $60,000 has been paid the lessor by lessee the government discontinues its price support and the market price of gold, tungsten or other minerals drops to a point where it again becomes unprofitable to mine, the lessee may discontinue work without prejudice to his lease, and the lease shall lie dormant until such time as the operation seems profitable under the then operation costs. If and when these circumstances should occur and should the lessee not start

work, then after a sixty day notice of such conditions in writing by the lessor to the lessee brings no action on the part of the lessee, the lease, in its entirety, shall be considered cancelled.

5. Interest under this lease may be transferred providing at least fifty-one per cent (51%) remains in the hands of Russell J. Wilson

6. The lessor shall have the right to inspect the books and records of the operation at any and all reasonable times.

7. It is understood the work will be carried on in a minerlike fashion. It is the intention of the lessee that, should the property warrant, to move his mill to the property, thereby cutting out the cost of hauling ore to the nearest tungsten mill now located at Bishop, California.

DATED: Sept. 17, 1951.

Robert H. Jackson

Edyth E. Jackson
Lessor

Russell J. Wilson
Lessee

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Mariposa, State of California, described in a certain Exploration Project Contract dated _____, 195__, between _____,

the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Sept 18, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 30th day of September, 1951.

Robert H. Jackson
Edith E. Jackson

U. S. GOVERNMENT PRINTING OFFICE 940768

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dma 2127
Metal or Mineral
Date Received 10-3-51
Amount $
Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 3 1951

RUSSELL J. WILSON
Garden Valley,
California
Box No. 1

Name and address of applicant

Date September 28, 1951

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By Russell T. Nelson (Signature of authorized official)
	Operator
(Date)	SEP 28 1951 (Title)

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

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

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
EL DORADO COUNTY, CALIF.

FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Sept. 28, 1951

Paragraph 1. (a). Please see attached photostatic copy of plat covering Mineral Survey #5771 made by U. S. Surveyor General's Office at San Francisco, California, dated January 15, 1925, Vol. 194, page 9.

(b) I am not the owner of the property. Attached is an original notarized copy of my lease on this property from the owners, Robert H. and Edith Jackson. There are no liens or encumbrances of any kind on the property. A copy of the Government's subordination agreement is also enclosed.

(c) The complete legal descriptions and map furnished as answer to question (a) also answers this question; both areas are the same.

2. (a) Tungstic Oxide and gold.

(b) I am enclosing a copy of a letter of Prof. Eliot Blackwelder, Geologist, expressing the opinion of Prof. Park, Minerologist, both of Stanford University. The samples seen by Prof. Blackwelder and Prof. Park were from the dump at the Louisa workings. These workings consist of a tunnel said to be about two hundred feet long, together with a winz some forty feet deep. The tunnel is caved and the proposed work must be done before a face sample can be taken. The last work was done in 1917. It is said that there was four feet of ore in the face when work was stopped. The operation at that time was for gold only. On August 15th I selected a sample of what appeared to me to be a medium grade of ore from the dump. A copy of this assay is attached. It showed gold at 24.85 per oz. and Tungstic Oxide - 0.97. A copy of an assay secured by Mr. Jackson for Tungstic Oxide only shows 2.02. When Mr. Jackson took the property over he cleaned up around the old millsite the value in gold and silver on a 62 lb. lot showed value per ton of $675.54. A copy of this statement is attached.

None of these assays or letters need be returned.

Last week Mr. Jackson received first prize at the Mariposa County Fair in competition with a number of others entering Scheelite ore.

Paragraph 3.

(a) The work proposed is entirely exploratory. It is planned to clean out and timber a two hundred foot tunnel known as the Louisa tunnel, unwater a 40 ft. winz at the end of the tunnel sunk on the vein, sample the ore in place and possibly by diamond drilling and some mining, determine not only the value of the ore, but also determine whether there is sufficient ore to warrant the establishment of a mill for its treatment. The estimated cost of this work is $7,895.40. This cost is subsequently detailed in paragraph 7.

Paragraph 4.

A detailed map of the entire property is enclosed. It is from the dump of the Louisa tunnel that the samples heretofore described were taken. The tunnel is now caved and must be cleaned out and timbered. The tunnel is 200 ft. long with a winz where the tunnel bisects the vein. It is said the ore body is four feet wide at the face and in the winz.

Paragraph 5.

The property is easily accessible on a forest service road two miles from a paved county road. A geological map is enclosed. Mr. and Mrs. Jackson live on the property. There are however, no buildings or equipment of value to this operation. In paragraph 7 to follow I have listed all costs for the proposed operation.

Paragraph 6.

For the operation contemplated in this application no building or installations will be necessary. The men will probably live at Acorne Inn, some four miles away and drive to work. No boarding house or sleeping accommodations will be necessary.

Paragraph 7

ESTIMATED COSTS FOR EXPLORATION WORK AT LOUISA TUNNEL

Labor		
1 Foreman at 2.50 per hr., 42 days	$840.00	
1 Timberman" 1.75 " " 42 "	588.00	
1 Miner " 1.75 " " 42 "	588.00	
1 Mucker " 1.65 " " 42 "	554.40	
Engineering assistance	200.00	
		$2,770.40
Necessary expendable supplies		
Gas and Oil for Compressor $5 per day	210.00	
Deposit on P. L. Ins.	250.00	
Preliums on policy	250.00	
Contributions	50.00	
Powder & Fuse	200.00	
Timbering tunnell 200 ft. 8 x 8 Dry Fir timbers in 4 ft. sets will require 14,000 b.f. at $60 per M delivered	840.00	
Timbering and logging Winz if necessary	225.00	
Drill steel	50.00	
		2,075.00
Equipment to be purchased - none		--
Equipment rented from outside contractors		
1 compressor capable of handling 1 Jack hammer and 1 sump pump (estimated) $50 per month		100.00
Equipment owned by lessee that will be used on project		
200 ft. 4" pipe		
200 ft. of mine rail		
200 ft. of ventilating pipe		
Motor & blower		
2 ore cars		
2 wheel barrows		
Portable electric light plant		
Sampling equipment jaw		
Crusher & pulverizer		
Sump pump pneumatic or		
Centrifugal pump electric		
Electric tugger for use on winz		
First aid equipment & supplies		
		$4,945.40

Paragraph 7 (continued)

Brought forward	$4,945.40
including stretcher 250 ft. underground electric cable Timberman's swing saw	
Note: Instead of trying to develop a rental figure for this equipment I suggest the estimated cost of taking up the rail and the transporation of the other equipment to and from Black Oak to Mariposa, 135 miles, be the charge made. This cost is estimated at	200.00
Diamond Drilling	
If after cleaning out the tunnel, unwatering the winz, the showings are as reports indicate, I think before a mill is moved in, some diamond drilling should be undertaken. I would say from 400 to 600 ft. To establish a figure I am listing 500 ft. at $6.00 per ft.	3,000.00
	$ 8,145.40
Less: Deposit on Insurance Policy	250.00
	$ 7,895.40

Paragraph 8.

This question has been answered in detail in paragraph 7.

Paragraph 9.

All necessary items of cost have been listed in paragraph 7.

Paragraph 10 (a).

I am prepared to invest $2,000, if necessary, in the project.

(b) Yes.

Paragraph 11.

In answer to this question I might add that I have had some 20 years active mining experience, and have successfully operated the Black Oak Mine at Garden Valley, the Feliciana Mine some five miles from Mr. Jackson's property involved here. During the last war I mined chrome and sold to the Government through the Auburn, California, purchasing office. I am enclosing a photostatic copy of page from Geologic Guidebook published by the California Division of Mines, which describes the Black Oak operation.

P. S. After the foregoing application was typed I took it to your San Francisco office for criticism. One of your Engineers suggested perhaps it was weak on sampling, pointing out that, that much work would develop a good size dump which he thought should have been sampled. This is a good question. I would like to clarify the answer.

When the property was worked the ore body was put through a mill for gold recovery. The mill finally burned, the partners had trouble among themselves and the work was abandoned. Subsequently several tons of ore not milled were picked off the dump and put through another mill. We have about 1000 lbs of ore missed by everyone else, that reacts beautifully to the lamp. It was part of this lot that has just won first prize at the Mariposa County Fair. The excellent quality of this ore is the basis for my belief proper exploration is warranted.

Russell J. Nelson

MF-202

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 2 2 55 PM '51

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Mariposa, State of California, described in a certain Exploration Project Contract dated _____, 195__, between _____, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Sept. 18 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 30th day of September, 1951.

Edith E. Jackson

U. S. GOVERNMENT PRINTING OFFICE 940768

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
EL DORADO COUNTY, CALIF.

FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Option and Lease between ROBERT H. JACKSON, his wife EDITH E. JACKSON, and RUSSELL J. WILSON, covering the EARLY MINE property located as follows:

Mineral Survey #5771 produced by U. S. Surveyor General's Office at San Francisco, Cal., dated Jan. 15, 1925, Vol. 194, page 9.

The lessor, Mr. Jackson and his wife agree to extend an option to the lessee Russell J. Wilson for a ninety day period to conclude preliminary tests, surveys, diamond drilling, etc., to determine as far as possible the extent and value of the deposit.

Should the lessee decide to work the property he may do so under the following terms and conditions:

1. The lease shall be for underground mineral rights only (see paragraph 2), the lessor however, agreeing to give the lessee the use of any necessary surface area for a mill site, tailings, pond and combination office and living quarters. All machinery and equipment placed on the property shall remain the property of the lessee and may be added to or taken away at his discretion.

In case of abandonment of the property all buildings to remain and become the property of the lessor.

2. Placer ground excluded unless permission is later given lessor by lessee for such operation. In such case the same royalties shall apply.

3. Royalties

The lessee shall pay 10% of all gross revenues from minerals until the sum of $60,000 has been paid. When $60,000 has been paid the lessee shall have a continuing right to mine this property when profitable, providing five per cent (5%) of all gross revenues received are paid to the lessor. All royalties are to be paid to the lessor as settlements are received by the lessee.

4. If before the entire $60,000 has been paid the lessor by lessee the government discontinues its price support and the market price of gold, tungsten or other minerals drops to a point where it again becomes unprofitable to mine, the lessee may discontinue work without prejudice to his lease, and the lease shall lie dormant until such time as the operation seems profitable under the then operation costs. If and when these circumstances should occur and should the lessee not start

work, then after a sixty day notice of such conditions in writing by the lessor to the lessee brings no action on the part of the lessee, the lease, in its entirety, shall be considered cancelled.

5. Interest under this lease may be transferred providing at least fifty-one per cent (51%) remains in the hands of Russell J. Wilson

6. The lessor shall have the right to inspect the books and records of the operation at any and all reasonable times.

7. It is understood the work will be carried on in a minerlike fashion. It is the intention of the lessee that, should the property warrant, to move his mill to the property, thereby cutting out the cost of hauling ore to the nearest tungsten mill now located at Bishop, California.

DATED: Sept. 17, 1951.

Robert H. Jackson

Edyth E. Jackson
Lessor

Russell J. Wilson
Lessee

STATE OF CALIFORNIA, } ss.
County of Mariposa

On this 18th *day of* September *in the year One Thousand Nine Hundred and* fifty-one

before me, JUANITA DAWSON, *a Notary Public in and for the County of Mariposa, State of California,*

residing therein, duly commissioned and sworn, personally appeared Robert H. Jackson and Edyth E. Jackson, his wife,

known to me to be the person s *whose name* s are *subscribed to the within*

instrument, and acknowledged that t *he* y *executed the same.*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal

at my office in the County of Mariposa, the day and year in this certificate first above written.

Juanita Dawson

Notary Public in and for the County of Mariposa, State of California.

STATE OF CALIFORNIA

City and County of San Francisco } *ss.*

On this 17th *day of* September *in the year One Thousand Nine Hundred and* ~~Eighty~~ Fifty-one

before me, H. I. STRATTON, *a Notary Public, in and for the City and County of San Francisco, personally appeared*

RUSSELL J. WILSON

known to me to be the same person..... whose name is *subscribed to the within instrument, and acknowledged to me that.....he.....executed the same.*

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at my office in the City and County of San Francisco, the day and year in the certificate first above written.

H. I. Stratton

Notary Public in and for the City and County of San Francisco, State of California.

(General)

My commission expires December 29, 1946

MY COMMISSION EXPIRES
DECEMBER 30, 1951

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035

MF-103 Should Be Filed With General Technical Data Form MF-100

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

Not To Be Filled in by Applicant

Docket No. dma 21121-7

Metal or Mineral

Date Received 10-3-51

Amount $

Participation (Government %)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 3 1951

RUSSELL J. WILSON
Garden Valley,
California
Box No. 1

Name and address of applicant

Date September 28, 1951

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

DMA Docket Number (if available) _____

INSTRUCTIONS

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

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

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

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

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

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

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

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

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

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

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

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

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   (*a*) Rented

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   (*c*) Furnished by you

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

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

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

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

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

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

CERTIFICATION

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

(Name of company)	By Reuben J. Nelson (Signature of authorized official)
SEP 28 1951 (Date)	Operator (Title)

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

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

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
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FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Sept. 28, 1951

Paragraph 1. (a). Please see attached photostatic copy of plat covering Mineral Survey #5771 made by U. S. Surveyor General's Office at San Francisco, California, dated January 15, 1925, Vol. 194, page 9.

(b) I am not the owner of the property. Attached is an original notarized copy of my lease on this property from the owners, Robert H. and Edith Jackson. There are no liens or encumbrances of any kind on the property. A copy of the Government's subordination agreement is also enclosed.

(c) The complete legal descriptions and map furnished as answer to question (a) also answers this question; both areas are the same.

2. (a) Tungstic Oxide and gold.

(b) I am enclosing a copy of a letter of Prof. Eliot Blackwelder, Geologist, expressing the opinion of Prof. Park, Minerologist, both of Stanford University. The samples seen by Prof. Blackwelder and Prof. Park were from the dump at the Louisa workings. These workings consist of a tunnel said to be about two hundred feet long, together with a winz some forty feet deep. The tunnel is caved and the proposed work must be done before a face sample can be taken. The last work was done in 1917. It is said that there was four feet of ore in the face when work was stopped. The operation at that time was for gold only. On August 15th I selected a sample of what appeared to me to be a medium grade of ore from the dump. A copy of this assay is attached. It showed gold at 24.85 per oz. and Tungstic Oxide - 0.97. A copy of an assay secured by Mr. Jackson for Tungstic Oxide only shows 2.02. When Mr. Jackson took the property over he cleaned up around the old millsite the value in gold and silver on a 62 lb. lot showed value per ton of $675.54. A copy of this statement is attached.

None of these assays or letters need be returned.

Last week Mr. Jackson received first prize at the Mariposa County Fair in competition with a number of others entering Scheelite ore.

Paragraph 3.

(a) The work proposed is entirely exploratory. It is planned to clean out and timber a two hundred foot tunnel known as the Louisa tunnel, unwater a 40 ft. winz at the end of the tunnel sunk on the vein, sample the ore in place and possibly by diamond drilling and some mining, determine not only the value of the ore, but also determine whether there is sufficient ore to warrant the establishment of a mill for its treatment. The estimated cost of this work is $7,895.40. This cost is subsequently detailed in paragraph 7.

Paragraph 4.

A detailed map of the entire property is enclosed. It is from the dump of the Louisa tunnel that the samples heretofore described were taken. The tunnel is now caved and must be cleaned out and timbered. The tunnel is 200 ft. long with a winz where the tunnel bisects the vein. It is said the ore body is four feet wide at the face and in the winz.

Paragraph 5.

The property is easily accessible on a forest service road two miles from a paved county road. A geological map is enclosed. Mr. and Mrs. Jackson live on the property. There are however, no buildings or equipment of value to this operation. In paragraph 7 to follow I have listed all costs for the proposed operation.

Paragraph 6.

For the operation contemplated in this application no building or installations will be necessary. The men will probably live at Acorne Inn, some four miles away and drive to work. No boarding house or sleeping accommodations will be necessary.

Paragraph 7

ESTIMATED COSTS FOR EXPLORATION WORK AT LOUISA TUNNEL

Labor		
1 Foreman at 2.50 per hr., 42 days	$840.00	
1 Timberman" 1.75 " " 42 "	588.00	
1 Miner " 1.75 " " 42 "	588.00	
1 Mucker " 1.65 " " 42 "	554.40	
Engineering assistance	200.00	
		$2,770.40
Necessary expendable supplies		
Gas and Oil for Compressor $5 per day	210.00	
Deposit on P. L. Ins.	250.00	
Prelium on policy	250.00	
Contributions	50.00	
Powder & Fuse	200.00	
Timbering tunnell 200 ft. 8 x 8 Dry Fir timbers in 4 ft. sets will require 14,000 b.f. at $60 per M delivered	840.00	
Timbering and logging Winz if necessary	225.00	
Drill steel	50.00	
		2,075.00
Equipment to be purchased - none		--
Equipment rented from outside contractors		
1 compressor capable of handling 1 Jack hammer and 1 sump pump (estimated) $50 per month		100.00
Equipment owned by lessee that will be used on project		
200 ft. 4" pipe		
200 ft. of mine rail		
200 ft. of ventilating pipe		
Motor & blower		
2 ore cars		
2 wheel barrows		
Portable electric light plant		
Sampling equipment jaw		
Crusher & pulverizer		
Sump pump pneumatic or		
Centrifugal pump electric		
Electric tugger for use on winz		
First aid equipment & supplies		
		$4,945.40

Paragraph 7 (continued)

Brought forward	$4,945.40
including stretcher 250 ft. underground electric cable Timberman's swing saw	
Note: Instead of trying to develop a rental figure for this equipment I suggest the estimated cost of taking up the rail and the transporation of the other equipment to and from Black Oak to Mariposa, 135 miles, be the charge made. This cost is estimated at	200.00
Diamond Drilling	
If after cleaning out the tunnel, unwatering the winz, the showings are as reports indicate, I think before a mill is moved in, some diamond drilling should be undertaken. I would say from 400 to 600 ft. To establish a figure I am listing 500 ft. at $6.00 per ft.	3,000.00
	$ 8,145.40
Less: Deposit on Insurance Policy	250.00
	$ 7,895.40

Paragraph 8.

This question has been answered in detail in paragraph 7.

Paragraph 9.

All necessary items of cost have been listed in paragraph 7.

Paragraph 10 (a).

I am prepared to invest $2,000, if necessary, in the project.

(b) Yes.

Paragraph 11.

In answer to this question I might add that I have had some 20 years active mining experience, and have successfully operated the Black Oak Mine at Garden Valley, the Feliciana Mine some five miles from Mr. Jackson's property involved here. During the last war I mined chrome and sold to the Government through the Auburn, California, purchasing office. I am enclosing a photostatic copy of page from Geologic Guidebook published by the California Division of Mines, which describes the Black Oak operation.

P. S. After the foregoing application was typed I took it to your San Francisco office for criticism. One of your Engineers suggested perhaps it was weak on sampling, pointing out that, that much work would develop a good size dump which he thought should have been sampled. This is a good question. I would like to clarify the answer.

When the property was worked the ore body was put through a mill for gold recovery. The mill finally burned, the partners had trouble among themselves and the work was abandoned. Subsequently several tons of ore not milled were picked off the dump and put through another mill. We have about 1000 lbs of ore missed by everyone else, that reacts beautifully to the lamp. It was part of this lot that has just won first prize at the Mariposa County Fair. The excellent quality of this ore is the basis for my belief proper exploration is warranted.

Russell J. Rice

RUSSELL J. WILSON

BLACK OAK MINE
GARDEN VALLEY
EL DORADO COUNTY, CALIF.

FELICIANA MINE
MIDPINES
MARIPOSA COUNTY, CALIF.

SAWMILL
EL DORADO COUNTY, CALIF.

GARDEN VALLEY, CALIF.

Option and Lease between ROBERT E. JACKSON, his wife EDITH H. JACKSON, and RUSSELL J. WILSON, covering the EARLY BIRD property located as follows:

Mineral Survey #5771 produced by U. S. Surveyor General's Office at San Francisco, Cal., dated Jan. 16, 1925, Vol. 194, page 9.

The lessor, Mr. Jackson and his wife agree to extend an option to the lessee Russell J. Wilson for a ninety day period to conclude preliminary tests, surveys, diamond drilling, etc., to determine as far as possible the extent and value of the deposit.

Should the lessee decide to work the property he may do so under the following terms and conditions:

1. The lease shall be for underground mineral rights only (see paragraph 2), the lessor however, agreeing to give the lessee the use of any necessary surface area for a mill site, tailings, pond and combination office and living quarters. All machinery and equipment placed on the property shall remain the property of the lessee and may be added to or taken away at his discretion.

In case of abandonment of the property all buildings to remain and become the property of the lessor.

2. Placer ground excluded unless permission is later given lessor by lessee for such operation. In such case the same royalties shall apply.

3. Royalties

The lessee shall pay 10% of all gross revenues from minerals until the sum of $60,000 has been paid. When $60,000 has been paid the lessee shall have a continuing right to mine this property when profitable, providing five per cent (5%) of all gross revenues received are paid to the lessor. All royalties are to be paid to the lessor as settlements are received by the lessee.

4. If before the entire $60,000 has been paid the lessor by lessee the government discontinues its price support and the market price of gold, tungsten or other minerals drops to a point where it again becomes unprofitable to mine, the lessee may discontinue work without prejudice to his lease, and the lease shall lie dormant until such time as the operation seems profitable under the then operation costs. If and when these circumstances should occur and should the lessee not start

work, then after a sixty day notice of such conditions in writing by the lessor to the lessee brings no action on the part of the lessee, the lease, in its entirety shall be considered cancelled.

5. Interest under this lease may be transferred providing at least fifty-one per cent (51%) remains in the hands of Russell J. Wilson.

6. The lessor shall have the right to inspect the books and records of the operation at any and all reasonable times.

7. It is understood the work will be carried on in a minerlike fashion. It is the intention of the lessee that, should the property warrant, to move his mill to the property, thereby cutting out the cost of hauling ore to the nearest tungsten mill now located at Bishop, California.

DATED: Sept. 17, 1951.

Robert H. Jackson

Edyth E. Jackson
Lessor

Russell J. Wilson
Lessee

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Mariposa, State of California, described in a certain Exploration Project Contract dated _____, 195__, between _____, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Sept 18, 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 30th day of September, 1951.

[illegible]
Edith E. Jackson

U. S. GOVERNMENT PRINTING OFFICE 940768

(Patented January 21, 1933
Serial No. 020520; Pat. No. 1015752

(PATENTED MARCH 7, 1927.
(SERIAL NO. 015129. PATENT NO. 997213.

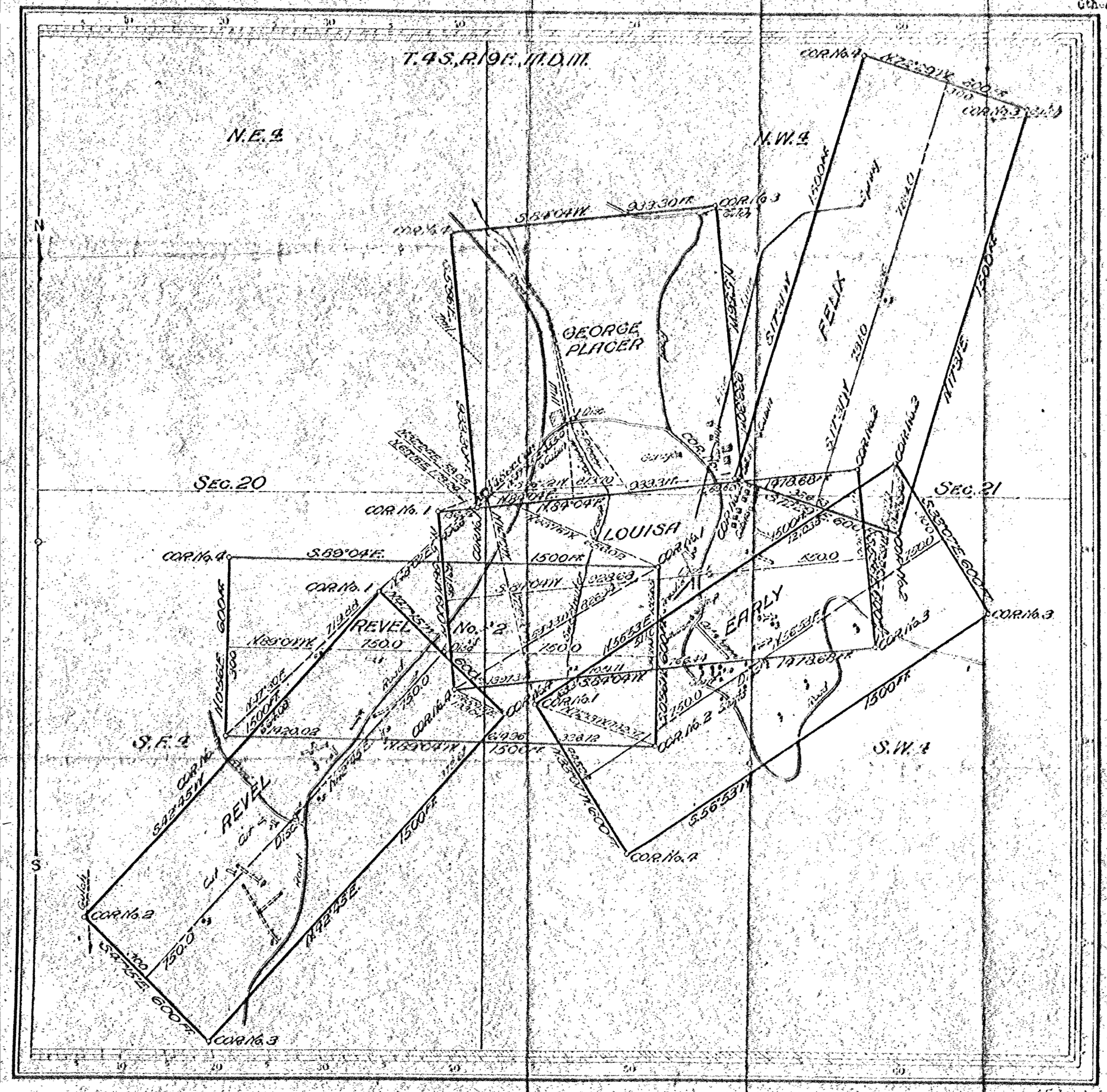

Figure 2.- Early mine claim map.

Mineral Survey No. 5771

~~Lot No.~~

Sacramento Land District.

PLAT

OF THE CLAIM OF

Harold S. Shaffer and Charles R. Shaffer

KNOWN AS THE

GEORGE PLACER AND REVEL, LOUISA, EARLY, REVEL No. 2 AND FELIX LODES

IN Sweetwater MINING DISTRICT,

Mariposa COUNTY, California

Containing an Area of _____ Acres.

Scale of 300 Feet to the inch.

Variation 17°00' East

SURVEYED July 17 - October 6, 1924 BY

A. E. Cowell, U.S. ~~Deputy~~ Mineral Surveyor,

the Original Field Notes of the Survey of the Mining Claim of Harold S. Shaffer and Charles R. Shaffer known as the "George" "Placer and "Revel," "Louisa," "Early," "Revel No. 2" and "Felix" Lodes.

from which this plat has been made under my direction, have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof.

I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimants _____ or their grantors, except upon the Felix Lode, and that said improvements consist of cheer mortar, 9 cubic, 3 frame cabins, 9 cubic, tools and shafts, 5 cubic and trenches and bed rock and drift. _____ Value $1,900.00

that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office,
San Francisco,
January 15, 1925

John Plover
U.S. Surveyor General for
California

DEPOSIT $ [illegible]
COST $ [illegible]
REFUND $ 42.71

705250

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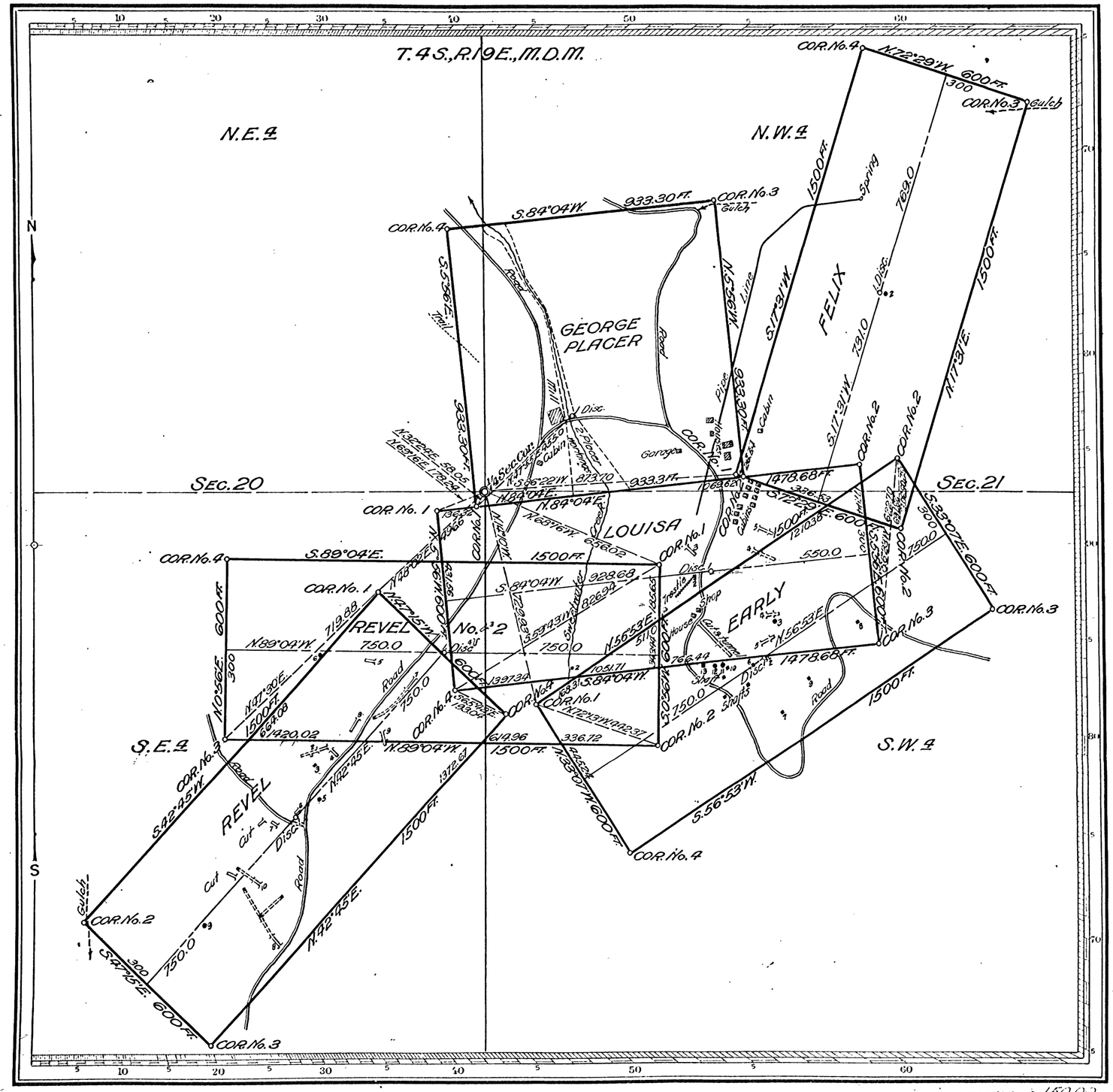
5771

Felix (Patented January 21, 1935
(Serial No.028520; Pat.No.1073752

(4-675)

Others (PATENTED MARCH 7, 1927.
(SERIAL NO. 015129. PATENT NO.997213.



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I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claim by claimants _____ or their grantors, except upon the Felix Lode, and that said improvements consist of placer workings, 9 shafts, 7 prospect holes, 9 cuts, 3 cuts and shafts, 5 cuts and tunnels and 1 cut, tunnel and drift; _____ Value, $7,903.00 that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim.

And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office, San Francisco, January 15, 1925

John Clover
U.S. Surveyor General for California

DEPOSIT $150.00
COST $107.29
REFUND $42.71

705250

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5771

Folio (Patented January 21, 19..
(Serial No. 020520; Pat. No. 1073752

(4-375)

Others (PATENTED MARCH 7, 1927.
(SERIAL NO. 015129. PATENT NO. 997213.

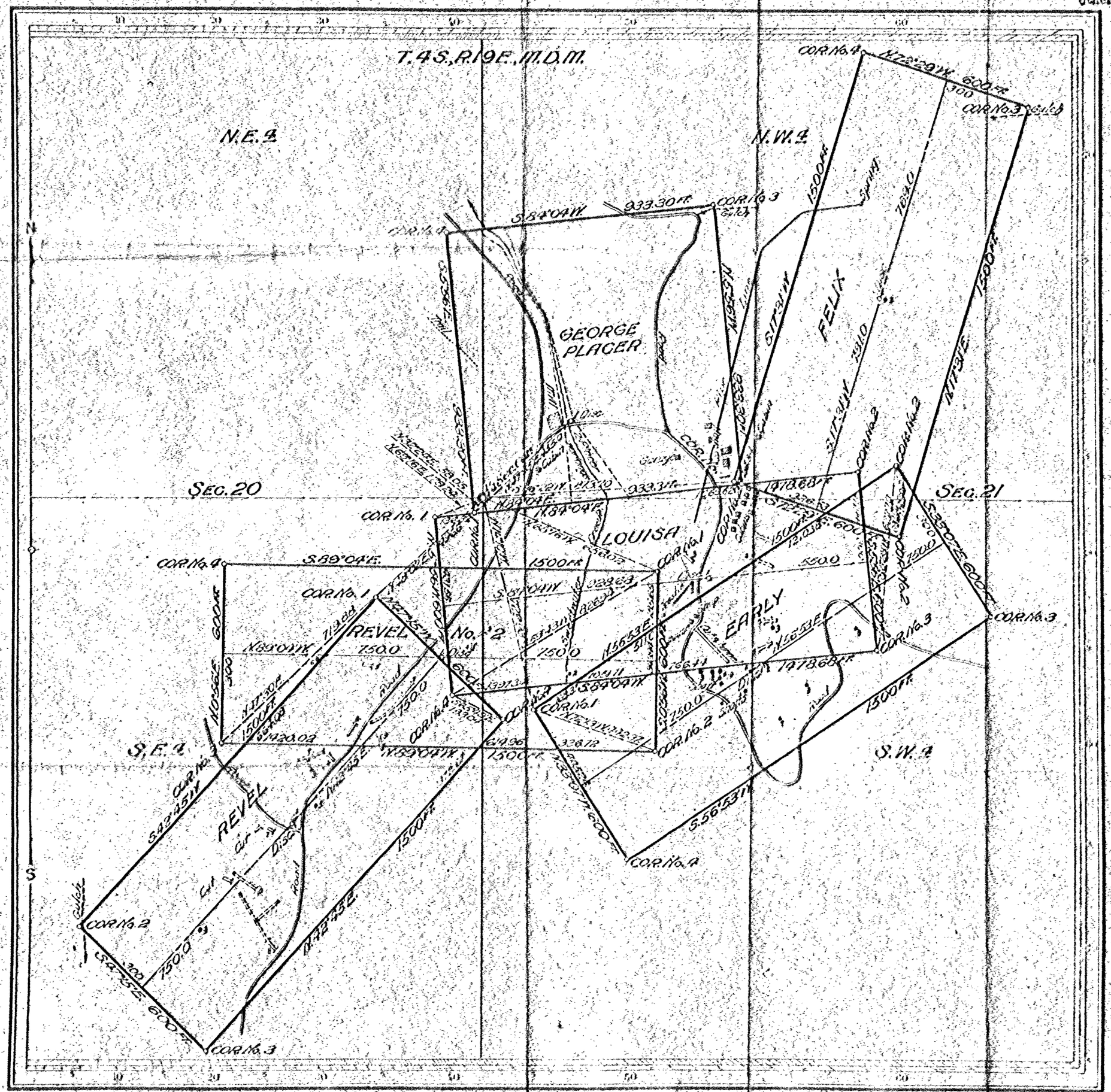

Figure 2.- Early mine claim map.

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U.S. Surveyor General's Office,
San Francisco,
January 15, 1925

John Plover
U.S. Surveyor General for
California

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5771

DEPOSIT $ [illegible]
COST $ [illegible]
REFUND $ [illegible]

705250