DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. 446x

To: Reports and Records Branch

From: Tungsten Branch DMA

Date: August 10, 1951

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

Forwarded to Administrative Management Div. - through Director, Supply Div.

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 446

DO NOT DETACH THIS SLIP

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

This document has been recorded as

_____

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

Routing Slip

To: ~~Distributed to~~ Date ~~9 Aug 51~~

To: Reports & Records Date 8-10-51

To: _____ Date _____

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To: _____ Date _____

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To: _____ Date _____

DO NOT DETACH

CONTROLLED DOCUMENT

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

FILE COPY
SURNAME:

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

Dave
Holderer
Jacobs
Lemmon

AUG 1 3 1951

Q.E.C.

Tepee Mining & Milling Co.
c/o Mr. Eric Flodine
[illegible]021 Wellington Road
Los Angeles, California

In reply please refer to
[illegible] — Tungsten

Dear Mr. Flodine:

Your application has been carefully considered by the Defense Minerals Administration. After an examination by our field team and gathering of other evidence, we find the owners of the property have cancelled your operating lease.

In addition to this our field examination of the property showed no measurable or indicated tungsten ore reserves exist. The samples taken by our engineers showed only minute quantities of tungsten. No well-defined vein structure was in evidence and it is extremely doubtful as to whether drilling would disclose tungsten ore.

Therefore we regretfully deny your application.

Very truly yours,

Tom Lyon

Tom Lyon
Director, [illegible] Division

J 7 8/13

CHJacobs:awj Aug. 9, 1951

cc:File
Adm. Reading File
Reports & Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

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

AUG 13 1951

Topaz Mining & Milling Co.
c/o Mr. Eric Flodine
[illegible] Wellington Road
Los Angeles, California

In reply please refer to
[illegible] — Tungsten

Dear Mr. Flodine:

Your application has been carefully considered by the Defense Minerals Administration. After an examination by our field team and gathering of other evidence, we find the owners of the property have cancelled your operating lease.

In addition to this our field examination of the property showed no measurable or indicated tungsten ore reserves exist. The samples taken by our engineers showed only minute quantities of tungsten. No well-defined vein structure was in evidence and it is extremely doubtful as to whether drilling would disclose tungsten ore.

Therefore we regretfully deny your application.

Very truly yours,

Tom Lyon

Tom Lyon
Director, Loans Division

CHJacoby:awj Aug. 9, 1951

cc:File
Adm. Reading File
Reports & Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

FILE COPY
SURNAME:

Holderer
Jacoby

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

Topaz Mining & Milling Co.

A.E.C.

AUG 10 1951

Mr. Paul [illegible] Mitchell
c/o Sweetwater Mining Company
Tonopah, California

In reply please refer to:
[illegible] — Tungsten

Dear Mr. Mitchell:

In reply to your letter concerning your property recently under lease to Mr. Eric Fleline of Los Angeles, we wish to inform you that his application for a loan has been denied.

The tungsten mineralization [illegible] appears to be erratic and it is felt no further exploration is warranted. If, however, you would care to make an application for an exploration loan for copper, it is suggested that you fill out and return the enclosed form DM-100.

These forms should be filled out and returned [illegible] changing [illegible], and re-[illegible]. [illegible] application will then be given [illegible] consideration.

Very truly yours,

George B. Holderer
BH 8/10

[illegible]
Chief, [illegible] Branch

Enclosure

CHJacoby:avj Aug. 9, 1951

cc: File
Adm. Reading File
Reports & Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

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

AUG 10 1951

Mr. Paul [illegible] Leitzell
c/o Westwater Mining Company
Tonopah, California

In reply please refer to:
[illegible] — Tungsten

Dear Mr. Leitzell:

In answer to your letter regarding your property recently under lease to Mr. Eric Flodine of Los Angeles, we wish to inform you that his application for [illegible] has been denied.

The tungsten mineralization [illegible] so poor and erratic that it was felt no further exploration is warranted. If, however, you should care to make an application for an exploration loan for copper, it is suggested that you fill out and return the enclosed form [illegible]-103.

These forms should be filled out completely with as convincing maps, [illegible], and reports as [illegible]. Your application will then be given careful consideration.

Very truly yours,

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

Enclosure

CHJacoby:awj Aug. 9, 1951

cc:File
Adm. Reading File
Reports & Records Unit
Mr. Lemmon
Mr. Geehan
Mr. Holderer
Field Team, Region III

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

340

August 9, 1951

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Tungsten Branch

Subject: Topaz Mining & Milling Company DMA-446-X — Tungsten
c/o Mr. Eric Flodine
2021 Wellington Road
Los Angeles, California

Property: Sweetwater Mine, Douglas County, Nevada

Conclusions: The owners of the property have cancelled the lease of the Topaz Mining & Milling Company because of alleged non-performance. In addition to this, the field examination disclosed no well-defined vein structure and only minute quantities of tungsten. It was the opinion of the field team that there was little likelihood of tungsten ore findings in this deposit.

Recommendation: The proposal is denied.

George B. Holderer
Chief, Tungsten Branch

Approved:

Director, Supply Division

FILE COPY
SURNAME:

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

Davis
Holderer
Jacoby
Lemmon

August [illegible], 1951

A. E. C.

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Tungsten Branch

Subject: [illegible] Milling Company
c/o Mr. [illegible] Fleming
[illegible] Wellington Road
Los Angeles, California

DMA-446-X — Tungsten

Property: Woolwater Mine, Douglas County, Nevada

Conclusions: The owners of the property have cancelled the lease of the Tungsten Mining & Milling Co. [illegible] because of alleged non-performance. In addition to this, the field examination disclosed no well-defined veins or structure and only minute quantities of tungsten. It was the opinion of the field team that the [illegible] of tungsten are finding in this area.

Recommendation: The [illegible] be [illegible].

George B. Holderer

Geology [illegible]
[illegible], Tungsten Branch

J.F. 8/13

Approved:

Tom Lyon

Director, Supply Division

CHJacoby:awj

cc:File
Adm. Reading File
Reports & Records Unit

Mr. Lemmon
Mr. Geehan
Mr. Holderer

Field Team, Reg. III

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

August [illegible], 1951

Memorandum

To: Administrative Management Division

Through: Director, Supply Division

From: Tungsten Branch

Subject: Tomax Mining & Milling Company
c/o Mr. Eric Fleline
[illegible] Wellington Road
Los Angeles, California

DMA-446-X — Tungsten

Property: Sweetwater Mine, Douglas County, Nevada

Conclusions: The owners of the property have cancelled the lease of the Tomax Mining & Milling Company because of alleged non-performance. In addition to this, the field examination disclosed no well-defined vein structure and only minute quantities of tungsten. It was the opinion of the field team that there was little likelihood of tungsten ore finding in this deposit.

Recommendation: The proposal is denied.

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

Approved:

Tom Lyon

Director, Supply Division

CHJacoby:awj

cc:File
Adm. Reading File
Reports & Records Unit

Mr. Lemmon
Mr. Geehan
Mr. Holderer

Field Team, Reg. III

Index of fiel D. M. A. 446-X — Tungsten 8/9/51

Topaz Mining & Milling Co.
c/o Mr. Eric Flodine
2021 Wellington Road
Los Angeles, California

1-Copy Memorandum from H. C. Miller to Tom Lyon July 26, 1951
1-Copy letter from Sweetwater Mining Co. to Mr. H. C. Miller July 8, 1951
1-Copy report of examination by Field Team Region III
3-Copy application 146
4 Copy lease agreement
3 copy J. A. Vandergriff report & supporting data
3 copy MF-103 with attached answers
1 copy of "Notice of Forfeiture"
1 copy of Memo to H. C. Miller from Tungsten Branch from George N. Malcolm
1 copy Memo to Strobel from Tungsten Branch dated March 15, 1951
1 copy letter to Dr. Boyd from Eric Flodine dated March 3, 1951
1 copy letter to U.S. Dept. Int. from Mr. Flodinde dated April 2, 1951
1 copy letter to Dr. Boyd from Mr. Flodine dated March 3, 1951
1 copy letter Hon. McDonough from Administrator dated May 18, 1951
1 copy letter to H. C. Miller from Tom Lyon (no date)
1 copy letter to Eric Flodine from Tom Lyon dated May 17, 1951
1 copy letter to H. C. Miller from Bradley dated May 17, 1951
1 copy letter to Flordine from Tom Lyon dated May 17, 1951
1 copy letter to Flordine from Tom Lyon dated March 15, 1951
1 copy letter to Flordine from Strobel dated June 18, 1951

OFFICE OF
~~REGIONAL DIRECTOR~~
Executive Officer
DMA Field Team
Region III

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~BUREAU OF MINES~~
~~REGION III~~
DEFENSE MINERALS ADMINISTRATION

1012 Flood Bldg.
870 Market Street
San Francisco 2, Calif.
~~1114 APPRAISERS BLDG.,~~
~~630 SANSOME STREET~~
~~SAN FRANCISCO 11, CALIF.~~

July 26, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, DMA, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: DMA-446-X Tungsten - Topaz Mining and Milling Co. - Exploration loan

Reference is to your subject letter dated June 1, requesting an examination of the Sweetwater Mine, Douglas County, Nevada.

The mine has been examined by Mr. R. G. Reeves, Geologist, U. S. Geological Survey, and four copies of his report, "DMA-446X, Sweetwater Tungsten Mine, Douglas County, Nevada (Tungsten)," dated July 23, 1951, are attached.

Mr. Reeves concludes that the requested exploration loan should be denied, as both assays and visual examination of the deposit by ultra-violet light failed to disclose any mineable tungsten ore. He is of the opinion, however, that further exploration and development of the property for copper might prove advantageous.

I am attaching a letter, dated July 8, from Mr. Paul R. Leitzell, President, Sweetwater Mining Company, Minden, Nevada, (mailing address - Topaz, Mono County, California), which should receive consideration by you and be made a part of the docket.

The completed form MF-103 and supporting documents are being returned herewith.

Defense Minerals Administration
JUL 31 195[illegible]
Executive Secretary

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

Attachments

Copy to: Edgar H. Bailey, USGS

340
FILE COPY
SURNAME:

Holderer
Ballard

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

July 26, 1951

AIR MAIL

Mr. Eric Flodine
2021 Wellington Road
Los Angeles 16, California

In reply please refer to
DMA 446X Tungsten

Dear Mr. Flodine:

I regret that the field report on the examination of your property has not arrived. However, we will act upon your application as soon as the report is received.

Very truly yours,

George B. Holderer

George B. Holderer
Chief, Tungsten Branch

TJBallard:bl

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Files

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

July 26, 1951

AIR MAIL

Topaz Mining & Milling Co.

Mr. Eric Flodine
2021 Wellington Road
Los Angeles 16, California

In reply please refer to
DMA 446X Tungsten

Dear Mr. Flodine:

I regret that the field report on the examination of your property has not arrived. However, we will act upon your application as soon as the report is received.

Very truly yours,

jasr

George B. Holderer
Chief, Tungsten Branch

TJBallard:bl

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Files

July 26, 1951

AIR MAIL

Mr. Eric Fleding
2021 Wellington Road
Los Angeles 16, California

In reply please refer to
DMA 6&K Tungsten

Dear Mr. Fleding:

I regret that the field report on the examination of your property has not arrived. However, we will act upon your application as soon as the report is received.

Very truly yours,

George B. Holderer
Jam

George B. Holderer
Chief, Tungsten Branch

TJBallard:bl

CC: Adm. Reading File
Reports & Records Unit
Mr. Holderer
Files

M. 00

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

JUL 24 1951

REFERENCE SLIP

Read by Mr. Holderer

JUL 23 1951

DATE .....

REFERRED TO:

1. Mr. Holderer
2. .....
3. .....
4. .....

Rm. 3624

FOR:

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

REMARKS: .....

Check (X) before the items needing attention.

LANDON F. STROBEL

Initials of sender.

GPO 16—63815-1

Mr. Holdere

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 3 1951
LANDON F. STROBEL
Executive Secretary

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 2 3 1951
LANDON F. STROBEL
Executive Secretary

July 17, 1951

Defense Minerals Administration
Department of Interior
Washington (25), D. C.

Attention: Mr. P. R. Bradley

Re: Docket# DMA-446X

Gentlemen:

On May 21, 1951, the above application was made for government participation in financing the exploration of the Sweetwater Mining Properties.

On June 26, 1951, Mr. R. G. Reeves of your Reno office made a survey of this property.

Would you kindly advise as to what decision has been reached on this application.

Very truly yours,

Eric Flodine

1820-X

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-446x, Sweetwater Tungsten Mine

Douglas County, Nevada

(Tungsten)

R. G. Reeves, Geologist
U. S. Geological Survey

July 23, 1951

DMA-446x, Sweetwater Tungsten Mine
Douglas County, Nevada

(Tungsten)

Location

The Sweetwater Tungsten mine is located on the western flank of the Sweetwater Mountains, in T. 9 N., R. 23 E., Douglas County, Nevada, approximately 8 miles east of Topaz, California. It is reached by road from Topaz junction, which is approximately 4 miles north of Coleville, California, on Highway 395. An oiled road turns east from Topaz junction; approximately 1 miles from the junction, the pavement ends. The road to the mine turns sharply north from the main gravelled road 3.4 miles from the junction. The road forks 2.0 miles after turning north, with the right, or east, fork leading to the mine. The mine camp is 9.4 miles from the Topaz junction, at an altitude of approximately 9,000 feet above sea level.

Examination

The property was visited by R. G. Reeves of the U. S. Geological Survey on June 26, 27 and 28. Mr. Frank C. Cassidy materially assisted in the examination and Mr. William W. Whiting aided in lamping the bulldozer cuts and inclined shaft.

Ownership

The property consists of thirty unpatented lode claims or fractions of claims. It is owned by the Sweetwater Mining Company, a Nevada corporation. At the time of this report (July 1951), Mr. Paul R. Leitzell is reported to be in control of the corporation. The lease given Mr. Eric Flodine on August 26, 1950, by the Sweetwater Mining Company, was declared forfeited by the owners on June 17, 1951, as a result of alleged nonfulfillment of the terms of the lease.

Development

The mine is developed by the Arrowhead shaft, which is an inclined shaft 280 feet in depth, several shallow shafts or prospect pits, and three main adits. Two of the adits are located about 2,500 feet north of the Arrowhead shaft, and the third is approximately 1,300 feet north-northeast of it. A shallow inclined shaft, with a depth of approximately 35 feet, is located about 1,300 feet southwest of the Arrowhead shaft. The area adjacent to, and south of, the 35-foot inclined shaft has been prospected by bulldozer cuts and trenches, and shallow prospect pits.

Geology

The principal rock exposed in the area is a meta-andesite. Interbedded with it is mica-schist that may have been derived from tuffaceous beds. Limestone, generally highly metamorphosed, crops out to the south and east of the mine area, and some highly silicified limestone is cut in the adits north of the Arrowhead shaft. Zones in which the limestone has been almost completely epidotized occur south and east of the Arrowhead shaft. Light colored dikes of quartz-monzonite, aplite, and pegmatite cut the meta-andesite, and locally are found in it as sill-like intrusions. With the exception of the dikes, no intrusive rocks were found in the immediate area.

Both the limestone and the meta-andesite dip steeply, generally to the north; at some places, however, dips are to the south. Several north-trending faults cut the meta-andesite and limestone; displacement along them does not seem to have been great.

Ore Deposits

Tungsten mineralization occurs in the meta-andesite along the north-trending faults. It appears to be localized by cross-fractures, and is not consistent along the faults. Occurring with scheelite are azurite, malachite, chalcopyrite, and pyrite. The yellow color of the supposed scheelite under the ultra-violet lamp indicates that much of it is powellite.

Copper minerals are found in all three main adits, and are reported in the Arrowhead shaft /. According to Vandergrift, gold is associated

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/ Vandergrift, J. A., Report on the "Sweetwater Mining Company", January 8, 1951, submitted with DMA Application 446x.

---

with the copper ore. Chalcopyrite and pyrite are the main ore minerals, and they, along with quartz and calcite, have been introduced along faults and cross-fractures. Lamping and sampling indicate that very little, if any, tungsten, is associated with the copper mineralization in the eastern part of the area. The mineralization appears to be erratic, and no well-defined vein structure was seen.

Samples were assayed only for tungsten, and no attempt was made to sample or map the copper deposits. The results of the eight samples taken are as follows:

		Percent WO_3
Sample #1.	Three-foot cut in upper bulldozer cut above 35-foot incline shaft	0.03
Sample #2.	Two-foot cut in middle bulldozer cut above 35-foot incline shaft	0.04
Sample #3.	Six-foot cut across mineralized zone in lower bulldozer cut above 35-foot shaft	0.02
Sample #4.	Six-foot cut across mineralized zone in drift east of 35-foot incline shaft	0.02
Sample #5.	Three-foot cut on east wall, adit #2, 60 feet from portal	0.02
Sample #6.	Grab sample, dump of arrowhead shaft	0.01
Sample #7.	Three-foot cut across mineralized fault on north wall of prospect pit south of 35-foot shaft	0.03
Sample #8.	Grab sample, dump of 35-foot incline shaft	less than 0.01

Ore Reserves

The property contains no measurable or indicated reserves of tungsten ore, and there appears to be little chance for development of a large tonnage of commercial grade tungsten ore.

Conclusions

Further exploration along the mineralized zones might disclose small amounts of low-grade ore, but the expected results would hardly seem to be worth the necessary expense and effort; an exploration loan does not seem to be warranted. Further exploration and development of the property for copper might prove advantageous.

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-446x, Sweetwater Tungsten Mine

Douglas County, Nevada

(Tungsten)

R. G. Reeves, Geologist
U. S. Geological Survey

July 23, 1951

DMA-446x, Sweetwater Tungsten Mine
Douglas County, Nevada

(Tungsten)

Location

The Sweetwater Tungsten mine is located on the western flank of the Sweetwater Mountains, in T. 9 N., R. 23 E., Douglas County, Nevada, approximately 8 miles east of Topaz, California. It is reached by road from Topaz junction, which is approximately 4 miles north of Coleville, California, on Highway 395. An oiled road turns east from Topaz junction; approximately 1 miles from the junction, the pavement ends. The road to the mine turns sharply north from the main gravelled road 3.4 miles from the junction. The road forks 2.0 miles after turning north, with the right, or east, fork leading to the mine. The mine camp is 9.4 miles from the Topaz junction, at an altitude of approximately 9,000 feet above sea level.

Examination

The property was visited by R. G. Reeves of the U. S. Geological Survey on June 26, 27 and 28. Mr. Frank C. Cassidy materially assisted in the examination and Mr. William W. Whiting aided in lamping the bulldozer cuts and inclined shaft.

Ownership

The property consists of thirty unpatented lode claims or fractions of claims. It is owned by the Sweetwater Mining Company, a Nevada corporation. At the time of this report (July 1951), Mr. Paul R. Leitzell is reported to be in control of the corporation. The lease given Mr. Eric Flodine on August 26, 1950, by the Sweetwater Mining Company, was declared forfeited by the owners on June 17, 1951, as a result of alleged nonfulfillment of the terms of the lease.

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The mine is developed by the Arrowhead shaft, which is an inclined shaft 280 feet in depth, several shallow shafts or prospect pits, and three main adits. Two of the adits are located about 2,500 feet north of the Arrowhead shaft, and the third is approximately 1,300 feet north-northeast of it. A shallow inclined shaft, with a depth of approximately 35 feet, is located about 1,300 feet southwest of the Arrowhead shaft. The area adjacent to, and south of, the 35-foot inclined shaft has been prospected by bulldozer cuts and trenches, and shallow prospect pits.

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/ Vandergrift, J. A., Report on the "Sweetwater Mining Company", January 8, 1951, submitted with DMA Application 446x.

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Conclusions

Further exploration along the mineralized zones might disclose small amounts of low-grade ore, but the expected results would hardly seem to be worth the necessary expense and effort; an exploration loan does not seem to be warranted. Further exploration and development of the property for copper might prove advantageous.

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-446x, Sweetwater Tungsten Mine

Douglas County, Nevada

(Tungsten)

R. G. Reeves, Geologist
U. S. Geological Survey

July 23, 1951

DMA-446x, Sweetwater Tungsten Mine
Douglas County, Nevada

(Tungsten)

Location

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The property consists of thirty unpatented lode claims or fractions of claims. It is owned by the Sweetwater Mining Company, a Nevada corporation. At the time of this report (July 1951), Mr. Paul R. Leitzell is reported to be in control of the corporation. The lease given Mr. Eric Flodine on August 26, 1950, by the Sweetwater Mining Company, was declared forfeited by the owners on June 17, 1951, as a result of alleged nonfulfillment of the terms of the lease.

Development

The mine is developed by the Arrowhead shaft, which is an inclined shaft 280 feet in depth, several shallow shafts or prospect pits, and three main adits. Two of the adits are located about 2,500 feet north of the Arrowhead shaft, and the third is approximately 1,300 feet north-northeast of it. A shallow inclined shaft, with a depth of approximately 35 feet, is located about 1,300 feet southwest of the Arrowhead shaft. The area adjacent to, and south of, the 35-foot inclined shaft has been prospected by bulldozer cuts and trenches, and shallow prospect pits.

Geology

The principal rock exposed in the area is a meta-andesite. Interbedded with it is mica-schist that may have been derived from tuffaceous beds. Limestone, generally highly metamorphosed, crops out to the south and east of the mine area, and some highly silicified limestone is cut in the adits north of the Arrowhead shaft. Zones in which the limestone has been almost completely epidotized occur south and east of the Arrowhead shaft. Light colored dikes of quartz-monzonite, aplite, and pegmatite cut the meta-andesite, and locally are found in it as sill-like intrusions. With the exception of the dikes, no intrusive rocks were found in the immediate area.

Both the limestone and the meta-andesite dip steeply, generally to the north; at some places, however, dips are to the south. Several north-trending faults cut the meta-andesite and limestone; displacement along them does not seem to have been great.

Ore Deposits

Tungsten mineralization occurs in the meta-andesite along the north-trending faults. It appears to be localized by cross-fractures, and is not consistent along the faults. Occurring with scheelite are azurite, malachite, chalcopyrite, and pyrite. The yellow color of the supposed scheelite under the ultra-violet lamp indicates that much of it is powellite.

Copper minerals are found in all three main adits, and are reported in the Arrowhead shaft_/. According to Vandergrift, gold is associated

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_/ Vandergrift, J. A., Report on the "Sweetwater Mining Company", January 8, 1951, submitted with DMA Application 446x.

---

with the copper ore. Chalcopyrite and pyrite are the main ore minerals, and they, along with quartz and calcite, have been introduced along faults and cross-fractures. Lamping and sampling indicate that very little, if any, tungsten, is associated with the copper mineralization in the eastern part of the area. The mineralization appears to be erratic, and no well-defined vein structure was seen.

Samples were assayed only for tungsten, and no attempt was made to sample or map the copper deposits. The results of the eight samples taken are as follows:

		Percent WO_3
Sample #1.	Three-foot cut in upper bulldozer cut above 35-foot incline shaft	0.03
Sample #2.	Two-foot cut in middle bulldozer cut above 35-foot incline shaft	0.04
Sample #3.	Six-foot cut across mineralized zone in lower bulldozer cut above 35-foot shaft	0.02
Sample #4.	Six-foot cut across mineralized zone in drift east of 35-foot incline shaft	0.02
Sample #5.	Three-foot cut on east wall, adit #2, 60 feet from portal	0.02
Sample #6.	Grab sample, dump of arrowhead shaft	0.01
Sample #7.	Three-foot cut across mineralized fault on north wall of prospect pit south of 35-foot shaft	0.03
Sample #8.	Grab sample, dump of 35-foot incline shaft	less than 0.01

Ore Reserves

The property contains no measurable or indicated reserves of tungsten ore, and there appears to be little chance for development of a large tonnage of commercial grade tungsten ore.

Conclusions

Further exploration along the mineralized zones might disclose small amounts of low-grade ore, but the expected results would hardly seem to be worth the necessary expense and effort; an exploration loan does not seem to be warranted. Further exploration and development of the property for copper might prove advantageous.

DIRECTORS
[redacted]
ERIC WITT, VICE-PRES.
PAUL R. LEITZELL, TREAS.
G. H. MORGAN, SEC'Y.

C. E. LEITZELL
DIRECTOR AND
GENERAL MANAGER

SWEETWATER MINING COMPANY

MINDEN, NEVADA

(Mail Address) - Topaz, Mono Co., California

800 N. Kenmore Avenue
Los Angeles 29, Calif.
July 8, 1951

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUL 1 0 1951
SAN FRANCISCO, CALIFORNIA

Refer to	Notes	By
Answered		

Mr. H. C. Miller
Regional Director, Region 3
Bureau of Mines
1415 Appraisers Building
630 Sansome Street
San Francisco 11, Calif.

Dear Sir:

You have in your office an application for a loan on the property of the Sweetwater Mining Company. This application was made out by Mr. Eric Flodine of Los Angeles, or under the name of Topaz Milling and Mining Company. Mr. Flodine obtained a lease from Sweetwater Mining Company on August 26, 1950 and at that time was to form his own corporation, the Topaz Milling and Mining Company, which has not been formed to date.

I discovered that due to the application of Mr. Flodine for a loan one of your men, Mr. R. G. Reeves, of Reno, Nevada, was to go up and examine the property. In the meantime, however, it was necessary for us to cancel the lease of Mr. Flodine, and I left immediately for the property to inform Mr. Reeves of this cancellation. It is upon his advice that I am writing this letter explaining the situation and asking that the Sweetwater Mining Company be allowed to submit the proper forms for this loan and, if possible, receive a copy of the findings of Mr. Reeves concerning our property.

Mr. Flodine's lease was cancelled due to the fact that he consistently refused to maintain the minimum work requirement of 40 man hour shifts per month. He discharged all employees from the mine on February 4, 1951 with the exception of Mr. Whiting, whom he had employed as an engineer and who was paid through February 24, 1951. Since that time there has been no paid employee on the property to do any work or to guard the valuable machinery and equipment on the grounds. In addition, Mr. Flodine shipped ore from the property to Bishop, California, and received a check in payment thereof and did not make a report to the Sweetwater Mining Company or tender any payment, in accordance with the terms of the lease, for ore mined and sold. Mr. Flodine willfully neglected the maintenance of the present tunnels and shafts and deliberately removed at least three sets of timbers in the 450 foot shaft on the property. The timbering done under Mr. Flodine's direction on the shaft which he installed for tungsten is very poorly braced and constructed; so much so that several engineers and workmen have refused to enter the shaft.

DIRECTORS
~~[illegible]~~
ERIC WITT, VICE-PRES.
PAUL R. LEITZELL, TREAS.
G. H. MORGAN, SEC'Y.

C. E. LEITZELL
DIRECTOR AND
GENERAL MANAGER

SWEETWATER MINING COMPANY

MINDEN, NEVADA

(Mail Address) - Topaz, Mono Co., California

In my conversation with Mr. Reeves, I arranged for a copy of the cancellation notice to be given Mr. Reeves so that it might accompany his report to you. The members of the group comprising the Sweetwater Mining Company have invested many thousands of dollars and approximately ten years of valuable time on this property, and we are very anxious to do everything that is possible and right to develop, mine and ship the ore from this property. If it is possible for us to secure a government loan we will be happy to provide the 25% necessary, and diligently develop this property as directed by the government. If you can assist us in any way by sending us the forms and perhaps a copy of the report made by Mr. Reeves on the property, it will be greatly appreciated by all.

Very truly yours,

SWEETWATER MINING COMPANY

Paul R. Leitzell

Paul R. Leitzell, President

FILE COPY
SURNAME:

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

June 18, 1951

Mr. Eric Flodine
President
Topaz Mining & Milling Company
2021 Wellington Road
Los Angeles 16, California

Subject: DMA-446X
Re: Exploration Loan
Sweetwater Mine

My dear Mr. Flodine:

Receipt is acknowledged of your application and attachments of May 21, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-446X and was referred to Mr. P. R. Bradley, Chief, Tungsten Branch on May 29, 1951.

In any future correspondence relating to your application, kindly refer to DMA-446X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:js
cc: Strobel-2
>Files
Bradley
Lyon

FILE COPY
SURNAME:

Lemmon
Brady
Geehan

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

Mailed To — JUN 1 1951

Mr. H. C. Miller, Executive Officer
DMA Field Team, Region III
1415 Appraisers Building
San Francisco, California

DMA 446-X Tungsten
Topaz Mining and Milling Co.
Exploration loan

Dear Mr. Miller:

The Topaz Mining and Milling Company has applied for an exploration project of $20,000 at the Sweetwater Mine, Douglas County, Nevada.

The application is referred to you for review and recommendation. The applicant has not presented a concrete proposal for exploration, and apparently is not technically competent to do so. However, we previously requested a field examination of the property on May 17, and believe that you will be able to advise the applicant about an exploration program if one is warranted.

The completed form F-103 and supporting documents are enclosed.

Very truly yours,

Tom Lyon

Tom Lyon
Chairman, Coordinating Committee

Enclosure

Approved:

Olaf N. Rosaen
Geological Survey
Dowell B. Moon

Bureau of Mines

DMLemmon:ec

CC: Adm. Reading File
Mr. Strobel
Regional Field Team Region III
Mr. Moon
Coordinating Committee

Mr. Lemmon
Mr. Bradley
Mr. Geehan
Files

4626

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

a.e.c.

Mailed — JUN 1, 1951

Mr. [illegible] Miller, Executive Officer
[illegible] Field Team, Region III
1415 Appraisers Building
San Francisco, California

[illegible] Tungsten
Topaz Mining and Milling Co.
Exploration loan

Dear Mr. Miller:

The Topaz Mining and Milling Company has applied for an exploration project of [illegible],000 at the Sweetwater Mine, Douglas County, Nevada.

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The completed form DM-103 and supporting documents are enclosed.

Very truly yours,

Tom Lyon

Tom Lyon
Chairman, Coordinating Committee

Enclosure

Approved:

Chas N. Rove

Geological Survey

Edward B. Moon

Bureau of Mines

WLemmon:ec

CC: Adm. Reading File
Mr. Strobel
Regional Field Team Region III
Mr. Moon
Coordinating Committee
Mr. Lemmon
Mr. Bradley
Mr. Geehem
Files

DRAFT

Mr. H. C. Miller, Executive Officer
DMA Field Team, Region III
1415 Appraisers Building
San Francisco, California

DMA 446-X Tungsten
Topaz Mining and Milling Co.
Exploration loan

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The completed form MF-103 and supporting documents are enclosed.

Yours very truly,

Tom Lyon
Chairman, Co-ordinating Committee

Approved:

_____
for the Bureau of Mines

_____
for the Geological Survey

enclosure

D.M.Lemmon
May 31, 1951

DRAFT

Mr. H. C. Miller, Executive Officer
DMA Field Team, Region III
1415 Appraisers Building
San Francisco, California

DMA 446-X Tungsten
Topaz Mining and Milling Co.
Exploration loan

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Yours very truly,

Tom Lyon
Chairman, Co-ordinating Committee

Approved:

_____
for the Bureau of Mines

_____
for the Geological Survey

enclosure

D.M.Lemmon
May 31, 1951

FILE CONTENT TO MILLER

DMA-446-X Tungsten
Topaz Mining and Milling Co.
Exploration Loan

Completed form MF-103

Mine lease

May 5-31-51

will be Cancel. Comm.
6-1-51

Mr. H. C. Miller, Executive Officer
DMA Field Team, Region III
1415 Appraisers Building
San Francisco, California

DMA-446-X Tungsten
Topaz Mining And Milling Co.

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The application is referred to you for review and recommendation. The applicant has not presented a concrete proposal for exploration, and apparently is not technically competent to do so. However, we previously requested a field examination of the property on May 17, and believe that you will be able to advise the applicant about an exploration program if one is warranted.

The completed form MF-103 and supporting documents are enclosed.

Very truly yours,

Tom Lyon
Chairman, Coordinating Committee

Enclosure

Approved:

_____
Geological Survey

_____
Bureau of Mines

MDLemmon:ec

CC: Adm. Reading File
Mr. Strobel
Regional Field Team Region III
Mr. Moon
Coordinating Committee

Mr. Lemmon
Mr. Geehan

Mr. Bradley
Files

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-446 X

Date received 5/29/51

Participation

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUN 4 1951
SAN FRANCISCO, CALIFORNIA

Topaz Mining and Milling Co.
c/o Eric Flodine
2021 Wellington Road
Los Angeles 16, California

Name and address of applicant

Date 5/21/51

FILL IN THIS BLOCK

Date of application May 21, 1951

Estimated cost $ 20,000.00

Mineral or metal Metal

Percentage of Government participation 75%

Location of mine Douglas County, Nevada

Date of filing MF-100 May 21, 1951

DMA Docket Number, if available 446 X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Topaz Mining and Milling Co.
(Name of company)

By [signature]
(Signature of authorized official)

5/21/51
(Date)

President-Treasurer
(Title)

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

*Same as footnote on page 1.

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

1. Individual proprietorship, operated by Eric Flodine, dba Topaz Mining and Milling Co. - corporation in process of formation.

2. Not applicable.

3. At time of corporation approval the officers and stockholders shall be as follows:

Eric Flodine, 2021 Wellington Road, Los Angeles 16, Calif., president, treasurer and director	71%
Ray Keefe, 1317½ Third St., Santa Monica, Calif., vice president and director	19%
W. J. Plischke - 1605 No. Cahuenga Blvd., Los Angeles 28, Calif., secretary and director	10%

4. a) The president has been a successful building contractor and automobile dealer. The secretary is engaged in the practice of public accounting.

   b) Mr. Ray Keefe, vice president, is and has been engaged in mining during most of his adult life. As an assistant, he has employed Mr. F. C. Cassidy, a graduate engineer, who was, during 1933 and 1934, employed by the Universal Exploration Co. In 1935 and 1936 Mr. Cassidy was engaged in personal mining enterprises, and between 1936 and 1938 was employed by Arizona-Comstock Corporation. In 1939 he was again in personal mining enterprises. From 1940 to 1942 he was general superintendent and engineer for the Frank A. Garbutt Mining Enterprises, which include the Log Cabin Mining Co., Standard Gypsum Co., Hackemoller Properties, and the Utah Cottonwood Vanadium Uranium Properties. From 1943 to 1945 Mr. Cassidy was general manager of the Tennessee Schuykill Corporation, and from 1946 was employed as general superintendent and engineer for the Frank A. Garbutt Estate (mentioned above in 1940 to 1942 employment.)

5. Lessee

6. Not applicable.

7. Attached

8. To date all expenses have been paid by Mr. Eric Flodine. A copy of Mr. Eric Flodine's personal financial statement is attached. A profit and loss statement for the period to December 31, 1950, is attached.

9. Applicant has already invested approximately $15,000 to date and wishes to invest another $5,000 for further development on a 25-75 basis.

10. (a) and (b) The property consists of 30 claims and fractions located on Sweetwater Range of mountains at an elevation of 6,700 to 8,000 feet and is located in Township 9 North, Range 23 East, M.D.B & M. as follows:

Major and Major Nos. 1, 2, 3, 4, 5, 6 and 7, major fraction, new era and new era Nos. 1, 2, 3, 4 and 5.
Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.
Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7 and 8.
Anne M, Victor Annex, Ace
as per map recorded in the office of the County Recorder of Douglas County, Nevada.
Both areas are the same.

11. Sweetwater Mine, both present and past.

12. The mine is located in Nevada, nine miles east on a good dirt road from Topaz, California. The nearest railroad is located in Reno, Nevada, 84 miles north on Highway 395, which could be considered the nearest shipping point by railroad. Trucking is available upon demand and the present dirt road is sufficient for ingress and egress the year around.

13. At the camp there are sufficient springs to satisfy the needs of all the camp and all equipment used for mining purposes. Power at the camp is now furnished by generators. For milling purposes an option has been obtained for property 16 miles west, and sufficient water is made available through irrigation ditches from the West Walker River. If this option is not exercised a 100 HP engine now on the property can be used for pumping purposes.

14. The following equipment is now on the property:

1 hoisting engine, 25 HP
1 ore bucket
1 100 HP Diesel engine with clutch
1 210 cu. ft. compressor
2 320 cu. ft. compressors
2 mine cars and track
3 jack hammers
1 Chevrolet 3/4 ton truck
1 blacksmith shop, completely equipped
1 machine shop, completely equipped
1 assay office, completely equipped and with living quarters attached
1 superintendent's house, completely furnished
1 cook house and dining room, completely equipped to serve 30
8 sleeping quarters

15. At the present time no milling facilities are available and after all necessary exploration work has been completed an application for funds for the construction of a mill will be made.

16. a) During the past twenty years the property has been developed by numerous open cuts and short tunnels in addition to the arrowhead shaft and three major tunnels. All of this was done for the primary purpose of obtaining gold. Since the property has been leased by the Topaz Mining and Milling Co. a shaft has been sunk on a sheelite vein to a 50' depth and two crosscuts of 10 ft. each. Approximately 600 tons of ore has been stockpiled and this ore indicates a heavy tungsten content as shown by the report submitted with letter dated April 2, 1951, addressed to Mr. Tom Lyon.

b) An adjoining property, known as Nevada-Massachusetts Mining Property, has also given every indication of exceptional tungsten content and approximately 300 tons of ore has been shipped to Alpine Mill, Gardnerville, Nevada. However, no assurance has been given that this ore will be milled in the near future. This property has had and will continue to have a similar problem due to the lack of proper milling facilities. This mine was a heavy producer of tungsten during World War II.

c) Following is a report by Pacific Contracting Corporation, 130 Linden Ave., Long Beach 2, California, signed by B. W. Van Voorhis, Jr.:

(Addressed to Mr. Eric Flodine, dated January 14, 1951)

"With regard to the load of tungsten ore which you shipped to us from your Topaz Lake property; the assays on the mill test which we made on this material are not yet completed. However, there follows a resume of results obtained to date:

"The load consisted of 7640 pounds of ore which contained 1.83% moisture, giving a dry weight of 7490 pounds, or 3.745 tons.

"We received one assay on this material which showed it to run 0.54% WO_3. However, we are having a check assay made as this does not appear to be consistent with the quantity of concentrate recovered from the ore.

"We recovered 114 pounds of concentrate which, upon inspection, appears to contain approximately 60% WO_3. However, no assay has as yet been completed on this material.

"As you can see, the heads assay is not consistent with the apparent recovery.

"By heads assay the ore would contain only 2.022 units of WO_3, while the apparent recovery was 3.42 units of WO_3.

"I am sorry that I cannot yet give you the complete results of the test, but as soon as I receive the assays on the products I will forward the complete results to you."

17. Not applicable.

18. Not applicable.

19. None

20. Tungsten and copper.

21. To further uncover and develop tungsten and copper veins appearing as outcroppings on the surface. It is estimated that 90-120 days' time will be required.

22. Approximately 600 tons of sheelite ore has already been stockpiled. Your attention here is called to Docket #446 in which all maps pertaining to this project were attached.

23.

a)	4 laborers @ $15 per day	$5,000
b)	1 supervisor @ $500 per month	2,000
c)	Not applicable	
d)	None	
e)	Miscellaneous repairs and replacements	2,000
f)	Bulldozer rental @ $80 per day	6,500
g)	Miscellaneous equipment @ $50 day	4,000
h)	Miscellaneous	1,000
i)	Groceries and camp maintenance	5,000

24. Completed within 120 days

ERIC FLODINE
Balance Sheet
November 30, 1950

ASSETS

CURRENT ASSETS:			
Cash on Hand		$ 1,200.00	
Cash in Banks:			
Bank of America	$12,836.91		
Farmers Bank of Carson Valley	1,262.23		
Savings	5,037.50	19,136.64	
Note Receivable - Plischke		200.00	
Total Current Assets			$ 20,536.64
FIXED ASSETS:			
Automotive Equipment - 1950 Cadillac		$ 4,950.00	
Hermosa Beach Property		50,000.00	
North Redondo Beach Property		100,000.00	
2021 Wellington Road		50,000.00	
Total Fixed Assets			204,950.00
INVESTMENTS:			
200 shares - Suburban Gas Co.		$ 5,000.00	
50,400 shares - Auto Rents, Inc.		50,400.00	
Hollywood Kaiser-Frazer Company		55,326.36	
Clearwater Mining Co. Lease		10,000.00	
Chattel Mortgage - 5250 Hollywood Blvd.		35,000.00	
1st T.D. Receivable (15)		38,638.67	
2nd T.D. Receivable (28)		36,941.73	
Total Investments			231,306.76
OTHER ASSETS:			
Note Receivable - Werner		$5,000.00	
Note Receivable - Anderson		2,000.00	
Total Other Assets			7,000.00
Total Assets			$463,793.40

LIABILITIES AND CAPITAL

CAPITAL:	
Eric Flodine, Capital	$463,793.40

TOPAZ MINING AND MILLING CO.
Schedule of Income and Expense
For the Calendar Year 1950

Gross Income for Period		-0-
Expenses:		
Bank Charges	$ 3.10	
Contract Labor	2,017.00	
Excavating Services	131.75	
Equipment Rental	2,460.00	
Gas, Oil and Equipment Repairs	524.01	
Groceries for Employees at Camp	585.92	
Insurance	206.50	
Lease Rental	3,050.00	
Miscellaneous Supplies	365.52	
Salaries and Wages - General	1,581.64	
Superintendent	1,144.98	
Sampling Expense	100.00	
Survey Expense	180.00	$12,350.42
Net Loss for Period		($12,350.42)

MINE LEASE

THIS INDENTURE, Made the 26th day of August, 1950, Between SWEETWATER MINING COMPANY, a corporation, Lessor, and ERIC FLODINE, Lessee,

WITNESSETH: That the said Lessor, for and in consideration of Ten & No/100 dollars ($10.00), to Lessor in hand paid, the receipt of which is hereby acknowledged, and in further consideration of the rents, royalties, covenants and agreements hereinafter reserved and by the said Lessee to be paid, kept and performed, that said Lessor has granted, demised and let, and by these presents do grant, demise and let, unto the said Lessee, all the following described mine and mining property, situated in an unnamed Mining District, County of Douglas, State of Nevada, to-wit:

Lode mining claims in Township 9, Range 23 East M.D.B.M., as follows:

Major and Major Nos. 1, 2, 3, 4, 5, 6, and 7,

Major Fraction, New Era and New Era Nos. 1, 2, 3, 4, and 5

Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.,

Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7, and 8, Anne M, Victor Annex, Ace

as per map recorded in the office of the County Recorder of said Douglas County, Nevada

TOGETHER with the appurtenances and all buildings, etc., and improvements located thereon.

TO HAVE AND TO HOLD unto the said Lessee for the term of twenty-five years from date hereof, expiring at noon on the 26th day of August 1975 unless sooner forfeited or determined through the violation of any covenant hereinafter against the said tenant herein reserved.

AND IN CONSIDERATION OF THE SAID DEMISE, THE said Lessee does covenant and agree with said Lessor as follows:

To pay said Lessor the further sum of ten per cent of mill and smelter settlement returns payable on the first day of each month after receipt

of same by Lessee.

Lessee is hereby given an option to purchase said mining property for the sum of $100,000.00 during the term of this lease, all royalty payments to apply to said purchase price, and Lessee shall have the right to make additional payments on the purchase price at his option.

To deliver to said Lessor, its agents or assigns, each and every month during the life of this lease, a full statement of all ore, or products and bullion extracted from said premises or a copy of net mill or smelter settlement sheets.

To enter upon said mine premises and work the same, mine fashion, in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the said premises as a workable mine.

TO ENTER and mine said premises as aforesaid steadily and continuously 60 days from the date of this Lease and that any failure to work said premises with at least 40 manshifts employed under or upon the ground for the space of 40 manshifts per month may be considered a violation of this covenant. To well and sufficiently timber said mine at all points where proper, in accordance with good mining and to repair all old timbering wherever it may be necessary.

To allow said Lessor and its agent to enter upon and into all parts of said mine for the purpose of inspection, with use of all passages, ropes, wind-lass, ladder-ways, and all other means of ingress and egress for such purpose.

To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices or mineral deposits of any kind, which may be discovered in working under this Lease, or in any tunnel run to intersect said or any lode, or by said Lessee or any person or person under him in any manner at any point within 600 feet of the center line of said lode, as property of said Lessor; with privilege to said Lessee of working the same, as an appurtenance of said demised premises, during the term of this Lease; and to not locate or record the same, or allow the

same to be located or recorded, except in the name of the said Lessor.

TO keep at all times the drifts, shafts, tunnels, and other passages and workings of said demised premises thoroughly drained and clear of loose rock and rubbish of all kinds.

TO deliver up to said Lessor the said premises, with the appurtenances and all improvements thereof in good order and condition, with all shafts and tunnels and other passages thoroughly clear of rubbish and drained, and the mine in all points ready for immediate continued working (accidents not arising from negligence alone excusing), without demand or further notice, on said 26th day of August, 1975, at noon, or any time previous, upon demand for forfeiture.

That the lessee shall have the right to move any of the existing buildings or remove buildings as necessary in the operation of the property under lease.

That lessee shall be assigned the water rights now existing and held by the corporation for the period of said lease.

That lessee shall have access to the property and that all keys to the buildings and equipment shall be turned over to the lessee upon the signing

assigns of said Lessor, and as said Lessor may elect, to the assigns of said Lessee.

IN WITNESS WHEREOF, the said parties hereto, the Lessor, and the Lessee, have hereunto set their hands and seals this 26th day of August, 1950.

SWEETWATER MINING COMPANY, a corporation

By Paul R. Leitzell Vice-Pres.

By Eric W. Witt Secy-Treas.

((Corporate Seal)) LESSOR

Eric Flodine
LESSEE

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared PAUL R. LEITZELL and ERIC W. WITT, Known to me to be the Vice-President and Secretary-Treasurer, respectively, of the SWEETWATER MINING COMPANY, the corporation that executed the within instrument, on behalf of the corporation therein named, and acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal.

Clarence Hansen
((Notarial Seal)) Notary Public in and for said County and State

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared ERIC FLODINE, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Clarence Hansen
((Notarial Seal)) Notary Public in and for said County and State

Filed for Record at request of John P. Thatcher, September 6, 1950, at 08 min. past 1 o'clock P.M. Recorded in Book G Leases, Page 401, Douglas County, Nevada Records.

ETHEL N. SCHACHT
COUNTY RECORDER

#7553
CERTIFICATION)
STATE OF NEVADA) ss.
COUNTY OF DOUGLAS)

I, the undersigned, do hereby certify that the foregoing is a true and correct copy of the original Lease made by Sweetwater Mining Company to Eric Flodine as the same appears of record in Book "G" of Leases at page 401 Douglas County, Nevada Records.

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-446X

Date received 5/29/51

Participation

Topaz Mining and Milling Co.
c/o Eric Flodine
2021 Wellington Road
Los Angeles 16, California

Name and address of applicant

Date 5/21/51

FILL IN THIS BLOCK

Date of application May 21, 1951

Estimated cost $ 20,000.00

Mineral or metal Metal

Percentage of Government participation 75%

Location of mine Douglas County, Nevada

Date of filing MF-100 May 21, 1951

DMA Docket Number, if available 446 X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Topaz Mining and Milling Co.
(Name of company)

By [signature]
(Signature of authorized official)

5/21/51
(Date)

President-Treasurer
(Title)

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

*Same as footnote on page 1.

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

1. Individual proprietorship, operated by Eric Flodine, dba Topaz Mining and Milling Co. - corporation in process of formation.

2. Not applicable.

3. At time of corporation approval the officers and stockholders shall be as follows:

Eric Flodine, 2021 Wellington Road, Los Angeles 16, Calif., president, treasurer and director	71%
Ray Keefe, 1317½ Third St., Santa Monica, Calif., vice president and director	19%
W. J. Plischke - 1605 No. Cahuenga Blvd., Los Angeles 28, Calif., secretary and director	10%

4. a) The president has been a successful building contractor and automobile dealer. The secretary is engaged in the practice of public accounting.

   b) Mr. Ray Keefe, vice president, is and has been engaged in mining during most of his adult life. As an assistant, he has employed Mr. F. C. Cassidy, a graduate engineer, who was, during 1933 and 1934, employed by the Universal Exploration Co. In 1935 and 1936 Mr. Cassidy was engaged in personal mining enterprises, and between 1936 and 1938 was employed by Arizona-Comstock Corporation. In 1939 he was again in personal mining enterprises. From 1940 to 1942 he was general superintendent and engineer for the Frank A. Garbutt Mining Enterprises, which include the Log Cabin Mining Co., Standard Gypsum Co., Hackemoller Properties, and the Utah Cottonwood Vanadium Uranium Properties. From 1943 to 1945 Mr. Cassidy was general manager of the Tennessee Schuykill Corporation, and from 1946 was employed as general superintendent and engineer for the Frank A. Garbutt Estate (mentioned above in 1940 to 1942 employment.)

5. Lessee

6. Not applicable.

7. Attached

8. To date all expenses have been paid by Mr. Eric Flodine. A copy of Mr. Eric Flodine's personal financial statement is attached. A profit and loss statement for the period to December 31, 1950, is attached.

9. Applicant has already invested approximately $15,000 to date and wishes to invest another $5,000 for further development on a 25-75 basis.

10. (a) and (b) The property consists of 30 claims and fractions located on Sweetwater Range of mountains at an elevation of 6,700 to 8,000 feet and is located in Township 9 North, Range 23 East, M.D.B & M. as follows:

Major and Major Nos. 1, 2, 3, 4, 5, 6 and 7, major fraction, new era and new era Nos. 1, 2, 3, 4 and 5.
Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.
Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7 and 8.
Anne M, Victor Annex, Ace
as per map recorded in the office of the County Recorder of Douglas County, Nevada.
Both areas are the same.

11. Sweetwater Mine, both present and past.

12. The mine is located in Nevada, nine miles east on a good dirt road from Topaz, California. The nearest railroad is located in Reno, Nevada, 84 miles north on Highway 395, which could be considered the nearest shipping point by railroad. Trucking is available upon demand and the present dirt road is sufficient for ingress and egress the year around.

13. At the camp there are sufficient springs to satisfy the needs of all the camp and all equipment used for mining purposes. Power at the camp is now furnished by generators. For milling purposes an option has been obtained for property 16 miles west, and sufficient water is made available through irrigation ditches from the West Walker River. If this option is not exercised a 100 HP engine now on the property can be used for pumping purposes.

14. The following equipment is now on the property:

1 hoisting engine, 25 HP
1 ore bucket
1 100 HP Diesel engine with clutch
1 210 cu. ft. compressor
2 320 cu. ft. compressors
2 mine cars and track
3 jack hammers
1 Chevrolet 3/4 ton truck
1 blacksmith shop, completely equipped
1 machine shop, completely equipped
1 assay office, completely equipped and with living quarters attached
1 superintendent's house, completely furnished
1 cook house and dining room, completely equipped to serve 30
8 sleeping quarters

15. At the present time no milling facilities are available and after all necessary exploration work has been completed an application for funds for the construction of a mill will be made.

16. a) During the past twenty years the property has been developed by numerous open cuts and short tunnels in addition to the arrowhead shaft and three major tunnels. All of this was done for the primary purpose of obtaining gold. Since the property has been leased by the Topaz Mining and Milling Co. a shaft has been sunk on a sheelite vein to a 50' depth and two crosscuts of 10 ft. each. Approximately 600 tons of ore has been stockpiled and this ore indicates a heavy tungsten content as shown by the report submitted with letter dated April 2, 1951, addressed to Mr. Tom Lyon.

b) An adjoining property, known as Nevada-Massachusetts Mining Property, has also given every indication of exceptional tungsten content and approximately 300 tons of ore has been shipped to Alpine Mill, Gardnerville, Nevada. However, no assurance has been given that this ore will be milled in the near future. This property has had and will continue to have a similar problem due to the lack of proper milling facilities. This mine was a heavy producer of tungsten during World War II.

c) Following is a report by Pacific Contracting Corporation, 130 Linden Ave., Long Beach 2, California, signed by B. W. Van Voorhis, Jr.:

(Addressed to Mr. Eric Flodine, dated January 14, 1951)

"With regard to the load of tungsten ore which you shipped to us from your Topaz Lake property; the assays on the mill test which we made on this material are not yet completed. However, there follows a resume of results obtained to date:

"The load consisted of 7640 pounds of ore which contained 1.83% moisture, giving a dry weight of 7490 pounds, or 3.745 tons.

"We received one assay on this material which showed it to run 0.54% WO_3. However, we are having a check assay made as this does not appear to be consistent with the quantity of concentrate recovered from the ore.

"We recovered 114 pounds of concentrate which, upon inspection, appears to contain approximately 60% WO_3. However, no assay has as yet been completed on this material.

"As you can see, the heads assay is not consistent with the apparent recovery.

"By heads assay the ore would contain only 2.022 units of WO_3, while the apparent recovery was 3.42 units of WO_3.

"I am sorry that I cannot yet give you the complete results of the test, but as soon as I receive the assays on the products I will forward the complete results to you."

17. Not applicable.

18. Not applicable.

19. None

20. Tungsten and copper.

21. To further uncover and develop tungsten and copper veins appearing as outcroppings on the surface. It is estimated that 90-120 days' time will be required.

22. Approximately 600 tons of sheelite ore has already been stockpiled. Your attention here is called to Docket #446 in which all maps pertaining to this project were attached.

23.

a)	4 laborers @ $15 per day	$5,000
b)	1 supervisor @ $500 per month	2,000
c)	Not applicable	
d)	None	
e)	Miscellaneous repairs and replacements	2,000
f)	Bulldozer rental @ $80 per day	6,500
g)	Miscellaneous equipment @ $50 day	4,000
h)	Miscellaneous	1,000
i)	Groceries and camp maintenance	5,000

24. Completed within 120 days

ERIC FLODINE
Balance Sheet
November 30, 1950

ASSETS

CURRENT ASSETS:			
Cash on Hand		$ 1,200.00	
Cash in Banks:			
Bank of America	$12,836.91		
Farmers Bank of Carson Valley	1,262.23		
Savings	5,037.50	19,136.64	
Note Receivable - Plischke		200.00	
Total Current Assets			$ 20,536.64
FIXED ASSETS:			
Automotive Equipment - 1950 Cadillac		$ 4,950.00	
Hermosa Beach Property		50,000.00	
North Redondo Beach Property		100,000.00	
2021 Wellington Road		50,000.00	
Total Fixed Assets			204,950.00
INVESTMENTS:			
200 shares - Suburban Gas Co.		$ 5,000.00	
50,400 shares - Auto Rents, Inc.		50,400.00	
Hollywood Kaiser-Frazer Company		55,326.36	
Clearwater Mining Co. Lease		10,000.00	
Chattel Mortgage - 5250 Hollywood Blvd.		35,000.00	
1st T.D. Receivable (15)		38,638.67	
2nd T.D. Receivable (28)		36,941.73	
Total Investments			231,306.76
OTHER ASSETS:			
Note Receivable - Werner		$5,000.00	
Note Receivable - Anderson		2,000.00	
Total Other Assets			7,000.00
Total Assets			$463,793.40

LIABILITIES AND CAPITAL

CAPITAL:	
Eric Flodine, Capital	$463,793.40

TOPAZ MINING AND MILLING CO.
Schedule of Income and Expense
For the Calendar Year 1950

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Net Loss for Period		($12,350.42)

MINE LEASE

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WITNESSETH: That the said Lessor, for and in consideration of Ten & No/100 dollars ($10.00), to Lessor in hand paid, the receipt of which is hereby acknowledged, and in further consideration of the rents, royalties, covenants and agreements hereinafter reserved and by the said Lessee to be paid, kept and performed, that said Lessor has granted, demised and let, and by these presents do grant, demise and let, unto the said Lessee, all the following described mine and mining property, situated in an unnamed Mining District, County of Douglas, State of Nevada, to-wit:

Lode mining claims in Township 9, Range 23 East M.D.B.M.,
as follows:
Major and Major Nos. 1, 2, 3, 4, 5, 6, and 7,
Major Fraction, New Era and New Era Nos. 1, 2,
3, 4, and 5
Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.,
Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7,
and 8, Anne M, Victor Annex, Ace
as per map recorded in the office of the County Recorder
of said Douglas County, Nevada

TOGETHER with the appurtenances and all buildings, etc., and improvements located thereon.

TO HAVE AND TO HOLD unto the said Lessee for the term of twenty-five years from date hereof, expiring at noon on the 26th day of August 1975 unless sooner forfeited or determined through the violation of any covenant hereinafter against the said tenant herein reserved.

AND IN CONSIDERATION OF THE SAID DEMISE, THE said Lessee does covenant and agree with said Lessor as follows:

To pay said Lessor the further sum of ten per cent of mill and smelter settlement returns payable on the first day of each month after receipt

of same by Lessee.

Lessee is hereby given an option to purchase said mining property for the sum of $100,000.00 during the term of this lease, all royalty payments to apply to said purchase price, and Lessee shall have the right to make additional payments on the purchase price at his option.

To deliver to said Lessor, its agents or assigns, each and every month during the life of this lease, a full statement of all ore, or products and bullion extracted from said premises or a copy of net mill or smelter settlement sheets.

To enter upon said mine premises and work the same, mine fashion, in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the said premises as a workable mine.

TO ENTER and mine said premises as aforesaid steadily and continuously 60 days from the date of this Lease and that any failure to work said premises with at least 40 manshifts employed under or upon the ground for the space of 40 manshifts per month may be considered a violation of this covenant. To well and sufficiently timber said mine at all points where proper, in accordance with good mining and to repair all old timbering wherever it may be necessary.

To allow said Lessor and its agent to enter upon and into all parts of said mine for the purpose of inspection, with use of all passages, ropes, wind-lass, ladder-ways, and all other means of ingress and egress for such purpose.

To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices or mineral deposits of any kind, which may be discovered in working under this Lease, or in any tunnel run to intersect said or any lode, or by said Lessee or any person or person under him in any manner at any point within 600 feet of the center line of said lode, as property of said Lessor; with privilege to said Lessee of working the same, as an appurtenance of said demised premises, during the term of this Lease; and to not locate or record the same, or allow the

same to be located or recorded, except in the name of the said Lessor.

TO keep at all times the drifts, shafts, tunnels, and other passages and workings of said demised premises thoroughly drained and clear of loose rock and rubbish of all kinds.

TO deliver up to said Lessor the said premises, with the appurtenances and all improvements thereof in good order and condition, with all shafts and tunnels and other passages thoroughly clear of rubbish and drained, and the mine in all points ready for immediate continued working (accidents not arising from negligence alone excusing), without demand or further notice, on said 26th day of August, 1975, at noon, or any time previous, upon demand for forfeiture.

That the lessee shall have the right to move any of the existing buildings or remove buildings as necessary in the operation of the property under lease.

That lessee shall be assigned the water rights now existing and held by the corporation for the period of said lease.

That lessee shall have access to the property and that all keys to the buildings and equipment shall be turned over to the lessee upon the signing of said lease.

AND finally upon the violation by said Lessee, or by any other person under him of any covenant or covenants hereinbefore reserved, the term of this Lease shall, at the option of said Lessor, expire, and the same and said premises with the appurtenances shall become forfeit to said Lessor, and said Lessor or its agent may thereupon, after demand of possession in writing, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of said Lessor, the said tenant and all persons found in occupancy may be proceeded against as trespassers from the beginning of said term, both as to realty and the ore served therefrom, or as guilty of unlawful detainer.

EACH and every clause and covenent of THIS INDENTURE shall extend to the heirs, executors and administrators of all parties hereto; and to the

assigns of said Lessor, and as said Lessor may elect, to the assigns of said Lessee.

IN WITNESS WHEREOF, the said parties hereto, the Lessor, and the Lessee, have hereunto set their hands and seals this 26th day of August, 1950.

SWEETWATER MINING COMPANY, a corporation

By Paul R. Leitzell Vice-Pres.

By Eric W. Witt Secy-Treas.

((Corporate Seal)) LESSOR

Eric Flodine
LESSEE

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared PAUL R. LEITZELL and ERIC W. WITT, known to me to be the Vice-President and Secretary-Treasurer, respectively, of the SWEETWATER MINING COMPANY, the corporation that executed the within instrument, on behalf of the corporation therein named, and acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal.

Clarence Hansen
((Notarial Seal)) Notary Public in and for said County and State

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared ERIC FLODINE, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Clarence Hansen
((Notarial Seal)) Notary Public in and for said County and State

Filed for Record at request of John P. Thatcher, September 6, 1950, at 08 min. past 1 o'clock P.M. Recorded in Book G Leases, Page 401, Douglas County, Nevada Records.

ETHEL N. SCHACHT
COUNTY RECORDER

#7553
CERTIFICATION)
STATE OF NEVADA) ss.
COUNTY OF DOUGLAS)

I, the undersigned, do hereby certify that the foregoing is a true and correct copy of the original Lease made by Sweetwater Mining Company to Eric Flodine as the same appears of record in Book "G" of Leases at page 401 Douglas County, Nevada Records.

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-446 X

Date received 5/29/51

Participation

Topaz Mining and Milling Co.
c/o Eric Flodine
2021 Wellington Road
Los Angeles 16, California

Name and address of applicant

Date 5/21/51

FILL IN THIS BLOCK

Date of application May 21, 1951

Estimated cost $ 20,000.00

Mineral or metal Metal

Percentage of Government participation 75%

Location of mine Douglas County, Nevada

Date of filing MF-100 May 21, 1951

DMA Docket Number, if available 446 X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Topas Mining and Milling Co.
(Name of company)

By [signature]
(Signature of authorized official)

5/21/51
(Date)

President-Treasurer
(Title)

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

*Same as footnote on page 1.

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

1. Individual proprietorship, operated by Eric Flodine, dba Topaz Mining and Milling Co. - corporation in process of formation.

2. Not applicable.

3. At time of corporation approval the officers and stockholders shall be as follows:

Eric Flodine, 2021 Wellington Road, Los Angeles 16, Calif., president, treasurer and director	71%
Ray Keefe, 1317½ Third St., Santa Monica, Calif., vice president and director	19%
W. J. Flischke - 1605 No. Cahuenga Blvd., Los Angeles 28, Calif., secretary and director	10%

4. a) The president has been a successful building contractor and automobile dealer. The secretary is engaged in the practice of public accounting.

   b) Mr. Ray Keefe, vice president, is and has been engaged in mining during most of his adult life. As an assistant, he has employed Mr. F. C. Cassidy, a graduate engineer, who was, during 1933 and 1934, employed by the Universal Exploration Co. In 1935 and 1936 Mr. Cassidy was engaged in personal mining enterprises, and between 1936 and 1938 was employed by Arizona-Comstock Corporation. In 1939 he was again in personal mining enterprises. From 1940 to 1942 he was general superintendent and engineer for the Frank A. Garbutt Mining Enterprises, which include the Log Cabin Mining Co., Standard Gypsum Co., Mackenzoller Properties, and the Utah Cottonwood Vanadium Uranium Properties. From 1943 to 1945 Mr. Cassidy was general manager of the Tennessee Schuykill Corporation, and from 1946 was employed as general superintendent and engineer for the Frank A. Garbutt Estate (mentioned above in 1940 to 1942 employment.)

5. Lessee

6. Not applicable.

7. Attached

8. To date all expenses have been paid by Mr. Eric Flodine. A copy of Mr. Eric Flodine's personal financial statement is attached. A profit and loss statement for the period to December 31, 1950, is attached.

9. Applicant has already invested approximately $15,000 to date and wishes to invest another $5,000 for further development on a 25-75 basis.

10. (a) and (b) The property consists of 30 claims and fractions located on Sweetwater Range of mountains at an elevation of 6,700 to 8,000 feet and is located in Township 9 North, Range 23 East, M.D.B & M. as follows:

Major and Major Nos. 1, 2, 3, 4, 5, 6 and 7, major fraction, new era and new era Nos. 1, 2, 3, 4 and 5.
Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.
Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7 and 8.
Anne M, Victor Annex, Ace
as per map recorded in the office of the County Recorder of Douglas County, Nevada.
Both areas are the same.

11. Sweetwater Mine, both present and past.

12. The mine is located in Nevada, nine miles east on a good dirt road from Topaz, California. The nearest railroad is located in Reno, Nevada, 84 miles north on Highway 395, which could be considered the nearest shipping point by railroad. Trucking is available upon demand and the present dirt road is sufficient for ingress and egress the year around.

13. At the camp there are sufficient springs to satisfy the needs of all the camp and all equipment used for mining purposes. Power at the camp is now furnished by generators. For milling purposes an option has been obtained for property 16 miles west, and sufficient water is made available through irrigation ditches from the West Walker River. If this option is not exercised a 100 HP engine now on the property can be used for pumping purposes.

14. The following equipment is now on the property:

1 hoisting engine, 25 HP
1 ore bucket
1 100 HP Diesel engine with clutch
1 220 cu. ft. compressor
2 320 cu. ft. compressors
2 mine cars and track
3 jack hammers
1 Chevrolet 3/4 ton truck
1 blacksmith shop, completely equipped
1 machine shop, completely equipped
1 assay office, completely equipped and with living quarters attached
1 superintendent's house, completely furnished
1 cook house and dining room, completely equipped to serve 30
5 sleeping quarters

15. At the present time no milling facilities are available and after all necessary exploration work has been completed an application for funds for the construction of a mill will be made.

16. a) During the past twenty years the property has been developed by numerous open cuts and short tunnels in addition to the arrowhead shaft and three major tunnels. All of this was done for the primary purpose of obtaining gold. Since the property has been leased by the Topaz Mining and Milling Co. a shaft has been sunk on a sheelite vein to a 50' depth and two crosscuts of 10 ft. each. Approximately 600 tons of ore has been stockpiled and this ore indicates a heavy tungsten content as shown by the report submitted with letter dated April 2, 1951, addressed to Mr. Tom Lyon.

b) An adjoining property, known as Nevada-Massachusetts Mining Property, has also given every indication of exceptional tungsten content and approximately 300 tons of ore has been shipped to Alpine Mill, Gardnerville, Nevada. However, no assurance has been given that this ore will be milled in the near future. This property has had and will continue to have a similar problem due to the lack of proper milling facilities. This mine was a heavy producer of tungsten during World War II.

c) Following is a report by Pacific Contracting Corporation, 130 Linden Ave., Long Beach 2, California, signed by B. W. Van Voorhis, Jr.:

(Addressed to Mr. Eric Flodine, dated January 14, 1951)

"With regard to the load of tungsten ore which you shipped to us from your Topaz Lake property; the assays on the mill test which we made on this material are not yet completed. However, there follows a resume of results obtained to date:

"The load consisted of 7640 pounds of ore which contained 1.03% moisture, giving a dry weight of 7490 pounds, or 3.745 tons.

"We received one assay on this material which showed it to run 0.54% WO_3. However, we are having a check assay made as this does not appear to be consistent with the quantity of concentrate recovered from the ore.

"We recovered 114 pounds of concentrate which, upon inspection, appears to contain approximately 60% WO_3. However, no assay has as yet been completed on this material.

"As you can see, the heads assay is not consistent with the apparent recovery.

"By heads assay the ore would contain only 2.022 units of WO_3, while the apparent recovery was 3.42 units of WO_3.

"I am sorry that I cannot yet give you the complete results of the test, but as soon as I receive the assays on the products I will forward the complete results to you."

17. Not applicable.

18. Not applicable.

19. None

20. Tungsten and copper.

21. To further uncover and develop tungsten and copper veins appearing as outcroppings on the surface. It is estimated that 90-120 days' time will be required.

22. Approximately 500 tons of sheelite ore has already been stockpiled. Your attention here is called to Docket #446 in which all maps pertaining to this project were attached.

23.

a)	4 laborers @ $15 per day	$5,000
b)	1 supervisor @ $500 per month	3,000
c)	Not applicable	
d)	None	
e)	Miscellaneous repairs and replacements	2,000
f)	Bulldozer rental @ $80 per day	6,500
g)	Miscellaneous equipment @ $50 day	4,000
h)	Miscellaneous	1,000
i)	Groceries and camp maintenance	5,000

24. Completed within 120 days

ERIC FLODINE
Balance Sheet
November 30, 1950

ASSETS

CURRENT ASSETS:			
Cash on Hand		$ 1,200.00	
Cash in Banks:			
Bank of America	$12,836.91		
Farmers Bank of Sawtelle Valley	1,262.23		
Savings	5,037.50	19,136.64	
Note Receivable - Mischke		200.00	
Total Current Assets			$ 20,536.64
FIXED ASSETS:			
Automotive Equipment - 1950 Cadillac		$ 4,950.00	
Hermosa Beach Property		50,000.00	
North Redondo Beach Property		100,000.00	
2021 Wellington Road		50,000.00	
Total Fixed Assets			204,950.00
INVESTMENTS:			
200 shares - Suburban Gas Co.		$ 5,000.00	
50,000 shares - Auto Rents, Inc.		50,000.00	
Hollywood Palace-Frazer Company		55,326.36	
Clearwater Mining Co. Lease		10,000.00	
Chattel Mortgage - 5250 Hollywood Blvd.		35,000.00	
1st T.D. Receivable (15)		30,638.67	
2nd T.D. Receivable (28)		36,941.73	
Total Investments			231,306.76
OTHER ASSETS:			
Note Receivable - Werner		$5,000.00	
Note Receivable - Anderson		2,000.00	
Total Other Assets			7,000.00
Total Assets			$463,793.40

LIABILITIES AND CAPITAL

CAPITAL:	
Eric Flodine, Capital	$463,793.40

TOPAZ MINING AND MILLING CO.
Schedule of Income and Expense
For the Calendar Year 1950

Gross Income for Period		-0-
Expenses:		
Bank Charges	$ 3.10	
Contract Labor	2,017.00	
Excavating Services	131.75	
Equipment Rental	2,460.00	
Gas, Oil and Equipment Repairs	524.01	
Groceries for Employees at Camp	585.92	
Insurance	206.50	
Lease Rental	3,050.00	
Miscellaneous Supplies	365.52	
Salaries and Wages - General	1,581.64	
Superintendent	1,144.98	
Sampling Expense	100.00	
Survey Expense	180.00	$12,350.42
Net Loss for Period		($12,350.42)

MINE LEASE

THIS INDENTURE, Made the 26th day of August, 1950, Between SWEETWATER MINING COMPANY, a corporation, Lessor, and ERIC FLODINE, Lessee,

WITNESSETH: That the said Lessor, for and in consideration of Ten & No/100 dollars ($10.00), to Lessor in hand paid, the receipt of which is hereby acknowledged, and in further consideration of the rents, royalties, covenants and agreements hereinafter reserved and by the said Lessee to be paid, kept and performed, that said Lessor has granted, demised and let, and by these presents do grant, demise and let, unto the said Lessee, all the following described mine and mining property, situated in an unnamed Mining District, County of Douglas, State of Nevada, to-wit:

Lode mining claims in Township 9, Range 23 East M.D.B.M.,
as follows:
Major and Major Nos. 1, 2, 3, 4, 5, 6, and 7,
Major Fraction, New Era and New Era Nos. 1, 2,
3, 4, and 5
Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.,
Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7,
and 8, Anne M, Victor Annex, Ace
as per map recorded in the office of the County Recorder
of said Douglas County, Nevada

TOGETHER with the appurtenances and all buildings, etc., and improvements located thereon.

TO HAVE AND TO HOLD unto the said Lessee for the term of twenty-five years from date hereof, expiring at noon on the 26th day of August 1975 unless sooner forfeited or determined through the violation of any covenant hereinafter against the said tenant herein reserved.

AND IN CONSIDERATION OF THE SAID DEMISE, THE said Lessee does covenant and agree with said Lessor as follows:

To pay said Lessor the further sum of ten per cent of mill and smelter settlement returns payable on the first day of each month after receipt

of same by Lessee.

Lessee is hereby given an option to purchase said mining property for the sum of $100,000.00 during the term of this lease, all royalty payments to apply to said purchase price, and Lessee shall have the right to make additional payments on the purchase price at his option.

To deliver to said Lessor, its agents or assigns, each and every month during the life of this lease, a full statement of all ore, or products and bullion extracted from said premises or a copy of net mill or smelter settlement sheets.

To enter upon said mine premises and work the same, mine fashion, in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the said premises as a workable mine.

TO ENTER and mine said premises as aforesaid steadily and continuously 60 days from the date of this Lease and that any failure to work said premises with at least 40 manshifts employed under or upon the ground for the space of 40 manshifts per month may be considered a violation of this covenant. To well and sufficiently timber said mine at all points where proper, in accordance with good mining and to repair all old timbering wherever it may be necessary.

To allow said Lessor and its agent to enter upon and into all parts of said mine for the purpose of inspection, with use of all passages, ropes, wind-lass, ladder-ways, and all other means of ingress and egress for such purpose.

To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices or mineral deposits of any kind, which may be discovered in working under this Lease, or in any tunnel run to intersect said or any lode, or by said Lessee or any person or person under him in any manner at any point within 600 feet of the center line of said lode, as property of said Lessor; with privilege to said Lessee of working the same, as an appurtenance of said demised premises, during the term of this Lease; and to not locate or record the same, or allow the

same to be located or recorded, except in the name of the said Lessor.

TO keep at all times the drifts, shafts, tunnels, and other passages and workings of said demised premises thoroughly drained and clear of loose rock and rubbish of all kinds.

TO deliver up to said Lessor the said premises, with the appurtenances and all improvements thereof in good order and condition, with all shafts and tunnels and other passages thoroughly clear of rubbish and drained, and the mine in all points ready for immediate continued working (accidents not arising from negligence alone excusing), without demand or further notice, on said 26th day of August, 1975, at noon, or any time previous, upon demand for forfeiture.

That the lessee shall have the right to move any of the existing buildings or remove buildings as necessary in the operation of the property under lease.

That lessee shall be assigned the water rights now existing and held by the corporation for the period of said lease.

That lessee shall have access to the property and that all keys to the buildings and equipment shall be turned over to the lessee upon the signing of said lease.

AND finally upon the violation by said Lessee, or by any other person under him of any covenant or covenants hereinbefore reserved, the term of this Lease shall, at the option of said Lessor, expire, and the same and said premises with the appurtenances shall become forfeit to said Lessor, and said Lessor or its agent may thereupon, after demand of possession in writing, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of said Lessor, the said tenant and all persons found in occupancy may be proceeded against as trespassers from the beginning of said term, both as to realty and the ore served therefrom, or as guilty of unlawful detainer.

EACH and every clause and covenant of THIS INDENTURE shall extend to the heirs, executors and administrators of all parties hereto; and to the

assigns of said Lessor, and as said Lessor may elect, to the assigns of said Lessee.

IN WITNESS WHEREOF, the said parties hereto, the Lessor, and the Lessee, have hereunto set their hands and seals this 26th day of August, 1950.

SWEETWATER MINING COMPANY, a corporation

By Paul R. Leitzell Vice-Pres.

By Eric W. Witt Secy-Treas.

((Corporate Seal))

LESSOR

Eric Flodine

LESSEE

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared PAUL R. LEITZELL and ERIC W. WITT, Known to me to be the Vice-President and Secretary-Treasurer, respectively, of the SWEETWATER MINING COMPANY, the corporation that executed the within instrument, on behalf of the corporation therein named, and acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal.

Clarence Hansen

((Notarial Seal)) Notary Public in and for said County and State

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared ERIC FLODINE, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Clarence Hansen

((Notarial Seal)) Notary Public in and for said County and State

Filed for Record at request of John P. Thatcher, September 6, 1950, at 08 min. past 1 o'clock P.M. Recorded in Book G Leases, Page 401, Douglas County, Nevada Records.

ETHEL N. SCHACHT
COUNTY RECORDER

#7553
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STATE OF NEVADA) ss.
COUNTY OF DOUGLAS)

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Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-446 X

Date received 5/29/51

Participation

Topaz Mining and Milling Co.
c/o Eric Flodine
2021 Wellington Road
Los Angeles 16, California

Name and address of applicant

Date 5/21/51

FILL IN THIS BLOCK

Date of application May 21, 1951

Estimated cost $ 20,000.00

Mineral or metal Metal

Percentage of Government participation 75%

Location of mine Douglas County, Nevada

Date of filing MF-100 May 21, 1951

DMA Docket Number, if available 446 X

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7. If lessee, attach a copy of the lease and state if it is in good standing.

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    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

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

CERTIFICATION

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

Topaz Mining and Milling Co.
(Name of company)

By [signature]
(Signature of authorized official)

5/21/51
(Date)

President-Treasurer
(Title)

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

*Same as footnote on page 1.

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

1. Individual proprietorship, operated by Eric Flodine, dba Topaz Mining and Milling Co. - corporation in process of formation.

2. Not applicable.

3. At time of corporation approval the officers and stockholders shall be as follows:

Eric Flodine, 2021 Wellington Road, Los Angeles 16, Calif., president, treasurer and director	71%
Ray Keefe, 1317½ Third St., Santa Monica, Calif., vice president and director	19%
W. J. Flischke - 1605 No. Cahuenga Blvd., Los Angeles 28, Calif., secretary and director	10%

4. a) The president has been a successful building contractor and automobile dealer. The secretary is engaged in the practice of public accounting.

   b) Mr. Ray Keefe, vice president, is and has been engaged in mining during most of his adult life. As an assistant, he has employed Mr. F. C. Cassidy, a graduate engineer, who was, during 1933 and 1934, employed by the Universal Exploration Co. In 1935 and 1936 Mr. Cassidy was engaged in personal mining enterprises, and between 1936 and 1938 was employed by Arizona-Comstock Corporation. In 1939 he was again in personal mining enterprises. From 1940 to 1942 he was general superintendent and engineer for the Frank A. Garbutt Mining Enterprises, which include the Log Cabin Mining Co., Standard Gypsum Co., Hackemoller Properties, and the Utah Cottonwood Vanadium Uranium Properties. From 1943 to 1945 Mr. Cassidy was general manager of the Tennessee Schuykill Corporation, and from 1946 was employed as general superintendent and engineer for the Frank A. Garbutt Estate (mentioned above in 1940 to 1942 employment.)

5. Lessee

6. Not applicable.

7. Attached

8. To date all expenses have been paid by Mr. Eric Flodine. A copy of Mr. Eric Flodine's personal financial statement is attached. A profit and loss statement for the period to December 31, 1950, is attached.

9. Applicant has already invested approximately $15,000 to date and wishes to invest another $5,000 for further development on a 25-75 basis.

10. (a) and (b) The property consists of 30 claims and fractions located on Sweetwater Range of mountains at an elevation of 6,700 to 8,000 feet and is located in Township 9 North, Range 23 East, M.D.B & M. as follows:

Major and Major Nos. 1, 2, 3, 4, 5, 6 and 7, major fraction, new era and new era Nos. 1, 2, 3, 4 and 5.
Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.
Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7 and 8.
Anne M, Victor Annex, Ace
as per map recorded in the office of the County Recorder of Douglas County, Nevada.
Both areas are the same.

11. Sweetwater Mine, both present and past.

12. The mine is located in Nevada, nine miles east on a good dirt road from Topaz, California. The nearest railroad is located in Reno, Nevada, 84 miles north on Highway 395, which could be considered the nearest shipping point by railroad. Trucking is available upon demand and the present dirt road is sufficient for ingress and egress the year around.

13. At the camp there are sufficient springs to satisfy the needs of all the camp and all equipment used for mining purposes. Power at the camp is now furnished by generators. For milling purposes an option has been obtained for property 16 miles west, and sufficient water is made available through irrigation ditches from the West Walker River. If this option is not exercised a 100 HP engine now on the property can be used for pumping purposes.

14. The following equipment is now on the property:

1 hoisting engine, 25 HP
1 ore bucket
1 100 HP Diesel engine with clutch
1 210 cu. ft. compressor
2 320 cu. ft. compressors
2 mine cars and track
3 jack hammers
1 Chevrolet 3/4 ton truck
1 blacksmith shop, completely equipped
1 machine shop, completely equipped
1 assay office, completely equipped and with living quarters attached
1 superintendent's house, completely furnished
1 cook house and dining room, completely equipped to serve 30
8 sleeping quarters

15. At the present time no milling facilities are available and after all necessary exploration work has been completed an application for funds for the construction of a mill will be made.

16. a) During the past twenty years the property has been developed by numerous open cuts and short tunnels in addition to the arrowhead shaft and three major tunnels. All of this was done for the primary purpose of obtaining gold. Since the property has been leased by the Topaz Mining and Milling Co. a shaft has been sunk on a sheelite vein to a 50' depth and two crosscuts of 10 ft. each. Approximately 600 tons of ore has been stockpiled and this ore indicates a heavy tungsten content as shown by the report submitted with letter dated April 2, 1951, addressed to Mr. Tom Lyon.

b) An adjoining property, known as Nevada-Massachusetts Mining Property, has also given every indication of exceptional tungsten content and approximately 300 tons of ore has been shipped to Alpine Mill, Gardnerville, Nevada. However, no assurance has been given that this ore will be milled in the near future. This property has had and will continue to have a similar problem due to the lack of proper milling facilities. This mine was a heavy producer of tungsten during World War II.

c) Following is a report by Pacific Contracting Corporation, 130 Linden Ave., Long Beach 2, California, signed by B. V. Van Voorhis, Jr.:

(Addressed to Mr. Eric Plodine, dated January 14, 1951)

"With regard to the load of tungsten ore which you shipped to us from your Topaz Lake property; the assays on the mill test which we made on this material are not yet completed. However, there follows a resume of results obtained to date:

"The load consisted of 7640 pounds of ore which contained 1.83% moisture, giving a dry weight of 7490 pounds, or 3.745 tons.

"We received one assay on this material which showed it to run 0.54% WO_3. However, we are having a check assay made as this does not appear to be consistent with the quantity of concentrate recovered from the ore.

"We recovered 114 pounds of concentrate which, upon inspection, appears to contain approximately 60% WO_3. However, no assay has as yet been completed on this material.

"As you can see, the heads assay is not consistent with the apparent recovery.

"By heads assay the ore would contain only 2.022 units of WO_3, while the apparent recovery was 3.42 units of WO_3.

"I am sorry that I cannot yet give you the complete results of the test, but as soon as I receive the assays on the products I will forward the complete results to you."

17. Not applicable.

18. Not applicable.

19. None

20. Tungsten and copper.

21. To further uncover and develop tungsten and copper veins appearing as outcroppings on the surface. It is estimated that 90-120 days' time will be required.

22. Approximately 600 tons of sheelite ore has already been stockpiled. Your attention here is called to Docket #446 in which all maps pertaining to this project were attached.

23.

a)	4 laborers @ $15 per day	$5,000
b)	1 supervisor @ $500 per month	2,000
c)	Not applicable	
d)	None	
e)	Miscellaneous repairs and replacements	2,000
f)	Bulldozer rental @ $80 per day	6,500
g)	Miscellaneous equipment @ $50 day	4,000
h)	Miscellaneous	1,000
i)	Groceries and camp maintenance	5,000

24. Completed within 120 days

ERIC FLODINE
Balance Sheet
November 30, 1950

ASSETS

CURRENT ASSETS:			
Cash on Hand		$ 1,200.00	
Cash in Banks:			
Bank of America	$12,036.91		
Farmers Bank of Gerson Valley	1,262.23		
Savings	5,037.50	19,136.64	
Note Receivable - Flischke		200.00	
Total Current Assets			$ 20,536.64
FIXED ASSETS:			
Automotive Equipment - 1950 Cadillac		$ 4,950.00	
Hermosa Beach Property		50,000.00	
North Redondo Beach Property		100,000.00	
2021 Wellington Road		50,000.00	
Total Fixed Assets			204,950.00
INVESTMENTS:			
200 shares - Suburban Gas Co.		$ 5,000.00	
50,400 shares - Auto Rents, Inc.		50,400.00	
Hollywood Kaiser-Frazer Company		55,326.36	
Clearwater Mining Co. Lease		10,000.00	
Chattel Mortgage - 5250 Hollywood Blvd.		35,000.00	
1st T.D. Receivable (15)		38,638.67	
2nd T.D. Receivable (28)		36,941.73	
Total Investments			231,306.76
OTHER ASSETS:			
Note Receivable - Werner		$5,000.00	
Note Receivable - Anderson		2,000.00	
Total Other Assets			7,000.00
Total Assets			$463,793.40

LIABILITIES AND CAPITAL

CAPITAL:	
Eric Flodine, Capital	$463,793.40

TOPAZ MINING AND MILLING CO.
Schedule of Income and Expense
For the Calendar Year 1950

Gross Income for Period		-0-
Expenses:		
Bank Charges	$ 3.10	
Contract Labor	2,017.00	
Excavating Services	131.75	
Equipment Rental	2,400.00	
Gas, Oil and Equipment Repairs	524.01	
Groceries for Employees at Camp	585.92	
Insurance	206.50	
Lease Rental	3,050.00	
Miscellaneous Supplies	365.52	
Salaries and Wages - General	1,581.64	
Superintendent	1,144.98	
Sampling Expense	100.00	
Survey Expense	100.00	$12,350.42
Net Loss for Period		($12,350.42)

MINE LEASE

THIS INDENTURE, Made the 26th day of August, 1950, Between SWEETWATER MINING COMPANY, a corporation, Lessor, and ERIC FLODINE, Lessee,

WITNESSETH: That the said Lessor, for and in consideration of Ten & No/100 dollars ($10.00), to Lessor in hand paid, the receipt of which is hereby acknowledged, and in further consideration of the rents, royalties, covenants and agreements hereinafter reserved and by the said Lessee to be paid, kept and performed, that said Lessor has granted, demised and let, and by these presents do grant, demise and let, unto the said Lessee, all the following described mine and mining property, situated in an unnamed Mining District, County of Douglas, State of Nevada, to-wit:

Lode mining claims in Township 9, Range 23 East M.D.B.M., as follows:

Major and Major Nos. 1, 2, 3, 4, 5, 6, and 7,

Major Fraction, New Era and New Era Nos. 1, 2, 3, 4, and 5

Gold Arrow and Gold Arrow No. 1 and Gold Arrow Ext.,

Sweetwater and Sweetwater Nos. 1, 2, 3, 4, 5, 6, 7, and 8, Anne M, Victor Annex, Ace

as per map recorded in the office of the County Recorder of said Douglas County, Nevada

TOGETHER with the appurtenances and all buildings, etc., and improvements located thereon.

TO HAVE AND TO HOLD unto the said Lessee for the term of twenty-five years from date hereof, expiring at noon on the 26th day of August 1975 unless sooner forfeited or determined through the violation of any covenant hereinafter against the said tenant herein reserved.

AND IN CONSIDERATION OF THE SAID DEMISE, THE said Lessee does covenant and agree with said Lessor as follows:

To pay said Lessor the further sum of ten per cent of mill and smelter settlement returns payable on the first day of each month after receipt

of same by Lessee.

Lessee is hereby given an option to purchase said mining property for the sum of $100,000.00 during the term of this lease, all royalty payments to apply to said purchase price, and Lessee shall have the right to make additional payments on the purchase price at his option.

To deliver to said Lessor, its agents or assigns, each and every month during the life of this lease, a full statement of all ore, or products and bullion extracted from said premises or a copy of net mill or smelter settlement sheets.

To enter upon said mine premises and work the same, mine fashion, in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the said premises as a workable mine.

TO ENTER and mine said premises as aforesaid steadily and continuously 60 days from the date of this Lease and that any failure to work said premises with at least 40 manshifts employed under or upon the ground for the space of 40 manshifts per month may be considered a violation of this covenant. To well and sufficiently timber said mine at all points where proper, in accordance with good mining and to repair all old timbering wherever it may be necessary.

To allow said Lessor and its agent to enter upon and into all parts of said mine for the purpose of inspection, with use of all passages, ropes, wind-lass, ladder-ways, and all other means of ingress and egress for such purpose.

To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices or mineral deposits of any kind, which may be discovered in working under this Lease, or in any tunnel run to intersect said or any lode, or by said Lessee or any person or person under him in any manner at any point within 600 feet of the center line of said lode, as property of said Lessor; with privilege to said Lessee of working the same, as an appurtenance of said demised premises, during the term of this Lease; and to not locate or record the same, or allow the

same to be located or recorded, except in the name of the said Lessor.

TO keep at all times the drifts, shafts, tunnels, and other passages and workings of said demised premises thoroughly drained and clear of loose rock and rubbish of all kinds.

TO deliver up to said Lessor the said premises, with the appurtenances and all improvements thereof in good order and condition, with all shafts and tunnels and other passages thoroughly clear of rubbish and drained, and the mine in all points ready for immediate continued working (accidents not arising from negligence alone excusing), without demand or further notice, on said 26th day of August, 1975, at noon, or any time previous, upon demand for forfeiture.

That the lessee shall have the right to move any of the existing buildings or remove buildings as necessary in the operation of the property under lease.

That lessee shall be assigned the water rights now existing and held by the corporation for the period of said lease.

That lessee shall have access to the property and that all keys to the buildings and equipment shall be turned over to the lessee upon the signing of said lease.

AND finally upon the violation by said Lessee, or by any other person under him of any covenant or covenants hereinbefore reserved, the term of this Lease shall, at the option of said Lessor, expire, and the same and said premises with the appurtenances shall become forfeit to said Lessor, and said Lessor or its agent may thereupon, after demand of possession in writing, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of said Lessor, the said tenant and all persons found in occupancy may be proceeded against as trespassers from the beginning of said term, both as to realty and the ore served therefrom, or as guilty of unlawful detainer.

EACH and every clause and covenent of THIS INDENTURE shall extend to the heirs, executors and administrators of all parties hereto; and to the

assigns of said Lessor, and as said Lessor may elect, to the assigns of said Lessee.

IN WITNESS WHEREOF, the said parties hereto, the Lessor, and the Lessee, have hereunto set their hands and seals this 26th day of August, 1950.

SWEETWATER MINING COMPANY, a corporation

By Paul R. Leitzell Vice-Pres.

By Eric W. Witt Secy-Treas.

((Corporate Seal)) LESSOR

Eric Fledine
LESSEE

STATE OF CALIFORNIA }
} ss.
COUNTY OF LOS ANGELES}

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared PAUL R. LEITZELL and ERIC W. WITT, Known to me to be the Vice-President and Secretary-Treasurer, respectively, of the SWEETWATER MINING COMPANY, the corporation that executed the within instrument, on behalf of the corporation therein named, and acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal.

Clarence Hansen
((Notarial Seal)) Notary Public in and for said County and State

STATE OF CALIFORNIA }
} ss.
COUNTY OF LOS ANGELES}

On this 31st day of August, 1950, before me, a notary public in and for said County and State, personally appeared ERIC FLODINE, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

Clarence Hansen
((Notarial Seal)) Notary Public in and for said County and State

Filed for Record at request of John P. Thatcher, September 6, 1950, at 03 min. past 1 o'clock P.M. Recorded in Book G Leases, Page 401, Douglas County, Nevada Records.

ETHEL D. SCHACHT
COUNTY RECORDER

#7553
CERTIFICATION }
STATE OF NEVADA } ss.
COUNTY OF DOUGLAS}

I, the undersigned, do hereby certify that the foregoing is a true and correct copy of the original Lease made by Sweetwater Mining Company to Eric Fledine as the same appears of record in Book "G" of Leases at page 401 Douglas County, Nevada Records.