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

JAN 27 1955

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

Dear Mr. Traver:

This will acknowledge your memorandum dated January 20, 1955, requesting that we forward to you the maps submitted with the application of the Golden Sunset Mining Company, (Copper), Juab County, Utah, DMA Docket No. 1615X, for return to the applicant.

In accordance with your request, the maps are enclosed herewith.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operations Control and
Statistics Division

Enclosures

REAdams/esf
(1/26/55)
cc to: Docket
Admr. R. File
Mr. Adams

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

224 New Customhouse
Denver 2, Colorado

January 20, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMA Docket No. 1615x, Golden Sunset Mining Company, (Copper), Juab County, Utah

The subject applicant has requested the return of maps submitted with the original brochure.

Our records indicate that the brochure was returned to your office together with three copies of the Report of Examination on January 16, 1952.

If you will return the maps submitted by the applicant in the original application to this office, we will forward them to the applicant.

W. M. Traver

HMC:pw

A.C.
2-7-52

FILE COPY
SURNAME:

Rutledge
Ellis
Johnson - M
Nelson
Hedges
Thayer

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

FEB 7 - 1952

Mr. Axel Wahlberg
President and General Manager
Golden Sunset Mining Company
Bluff, Utah

Re: Docket No. DMA-1615 (Copper)

Dear Mr. Wahlberg:

Your application for an exploration contract on your Golden Sunset Mining Company prospect in the Atlatic District, San Juan County, Utah, has been carefully reviewed by this agency.

The geologic evidence and analytical results of the samples taken at your property discount the promise of a significant discovery of copper ore which would contribute materially to the National defense. Under the circumstances we regret to inform you that your application is denied.

If future work at your property reveals additional evidence which could alter this opinion, please be assured we will be glad to reconsider your application.

Sincerely yours,

C. O. Mittendorf (fw) ce 2-7-52

Acting Administrator
Defense Minerals Exploration
Administration

FARutledge/ em
1/31/52
cc to: Adm. Reading File
Docket
Messrs. Johnson, OH Rm. 3621
Nelson, Ned Rm. 4216 G.S.
Ellis
Rutledge
Field Team, Region IV (2)

2/12/52 gla

Golden Sunset Mng Co.
Mammoth Ut.
Feb. 6-1952
D.M.A.-1615 X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 11 1952

U.S. Bureau of Mines
Washington D.C.

Dear Sirs:

Under our Docket No-1615X we requested a loan on this property in May 1951. Since that time the property was examined by Engineers from the Salt Lake Branch of the Bureau of Mines.

We are most anxious to know what disposition you have in mind that we can make our plans accordingly. We will appreciate hearing from you at your earliest convenience.

Sincerely yours

Axel Wallberg Pres. & Genl Mgr

OFFICE OF THE ADMINISTRATOR

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

224 New Customhouse
Denver 2, Colorado

January 16, 1952

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, DMEA, Region IV

Subject: Final Report, DMA Docket 1615X, Golden Sunset Mining Company (Copper) Tintic District, Juab County, Utah

Enclosed herewith are the brochure and the original and two copies of the Final Report on the subject docket. The application was for government assistance in exploration work estimated to cost $100,000.

The Golden Sunset Mining Co. property lies in close proximity to mines which have had large production of lead, zinc, copper, gold and silver ores, chiefly from deposits which replace limestone. However, rocks in the immediate property area consist almost entirely of the Cambrian Tintic quartzite. The tintic quartzite has yielded significant tonnages of high-grade gold and silver ores with small amounts of copper, lead and zinc in the eastern part of the Tintic district, but no commercial ore bodies have been found in the quartzite near the Golden Sunset property.

We concur in the conclusions of the examining team that the chances for discovery of copper or lead ore bodies of commercial size are not promising, and concur with their recommendation that the request for government assistance in exploration work on the property of the Golden Sunset Mining Company be denied.

for W. H. King
J. H. East, Jr.

A. H. Koschmann
A. H. Koschmann

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D. C.
JAN 21 8 18 PM '52

Reviewed by
DMEA OPERATING COMMITTEE
1-25-52
(date) he

Mining Division
Region IV

January 16, 1952

Memorandum

To: DMEA Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 1415X, Golden Sunset Mining Company, (Copper), Tintic District, Juab County, Utah

Enclosed herewith are the original and seven copies of the Engineering Report by the Bureau of Mines and the same number of copies of the Section on Summary, Conclusions and Recommendations by the Geological Survey and Bureau of Mines examining team.

The brochure is also enclosed.

It has been recommended that the application for government assistance in exploration work estimated to cost $100,000 be denied.

W. H. King
W. H. King

Mining Division
Date Rec'd.
JAN 7 - 1952
BUREAU OF MINES
Denver, Colorado

January 5, 1952

Memorandum

To: Paul T. Allsman, Chief, Mining Division, Region IV

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: DMA-1615X, Golden Sunset Mining Co., Juab County, Utah

Enclosed are the original and 7 copies of an engineering report covering the subject property. Also attached are a section on Summary, Conclusions and Recommendations and the original brochure.

I concur with the recommendations of the examiners.

Stephen R. Wilson

Stephen R. Wilson

Enclosures - 3

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

200 New Customhouse
Denver 2, Colorado

November 30, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1615X, Golden Sunset Mining Company, Mammoth, Utah

Enclosed are 8 copies of the geologic report by R. M. Smith and H. R. Craig, Jr. of the U. S. Geological Survey covering the above docket. It has been recommended that the loan be denied.

The U. S. Bureau of Mines engineering report, accompanied by the brochure, will follow.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (8)

Room 307, 320 South Main
Salt Lake City 1, Utah
28 November 1951

Memorandum

To: A. H. Aschmann, Field Team, Region IV

From: Ralph J. Roberts

Subject: Docket DMA 1615L, Golden Sunset Mining Company, Mammoth, Utah.

Enclosed are eight copies of a geologic report on Docket DMA 1615L, Golden Sunset Mining Company, Mammoth, Utah.

The property of the Golden Sunset Mining Company is in the extreme west part of the Tintic Mining Company, Juab County, Utah. Most of the ore deposits of the district are replacement deposits in limestone and dolomite.

Rocks exposed on the property of the Golden Sunset Mining Company are the Tintic quartzite of lower Cambrian age, a dike of rhyolite porphyry, and a sill of altered andesite. Geologic mapping has indicated that there are only traces of copper mineralization in the workings and that there are no favorable units or structures on the property that would form a sound basis for an exploration program.

It is therefore recommended that the application for an exploration loan be denied. The U. S. Bureau of Mines engineering report, accompanied by the brochure, will follow.

I concur with the conclusions and recommendations of the consulting geologists.

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

Docket DMA-1615X, Golden Sunset Mining Company

Mammoth, Utah

R. M. Smith and H. R. Craig, Jr., Geologists
U. S. Geological Survey

November 27, 1951

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. M. Smith,
H. R. Craig and
M. H. Howes

The Golden Sunset Mining Co. property in the Tintic district, Juab County, Utah, was examined November 6 and 7, 1951, by Survey and Bureau of Mines personnel. The company has requested an exploratory loan of $100,000 under docket DMA-1615X.

Rocks in the immediate property area consist almost entirely of the Cambrian Tintic quartzite. Near the central part of the property, a narrow rhyolite porphyry dike has intruded the quartzite. Scattered fractures and bedding slips occur in the quartzite at the surface and throughout the underground workings, particularly in the vicinity of the rhyolite porphyry dike. Many of the fractures are slightly mineralized with iron oxide, barite and quartz. Samples taken at the time of examination contain small quantities of lead, zinc, copper, gold and silver.

Although the Golden Sunset Mining Co. property lies in close proximity to mines which have had large production of lead, zinc, copper, gold and silver ores, chiefly from deposits which replace limestone, no mineralization of sufficient strength to be termed ore has been found on the property. The Tintic quartzite has yielded significant tonnages of high-grade gold and silver ores with small amounts of copper, lead and zinc in the eastern part of the Tintic district, but no commercial ore bodies have been found in the quartzite near the Golden Sunset property.

It is concluded that chances for discovery of copper or lead ore bodies of commercial size are not promising, and it is therefore recommended that the request for an exploratory loan on the property of the Golden Sunset Mining Co. be denied.

GOLDEN SUNSET MINING CO.
JUAB COUNTY, UTAH
DMA-1615X
Copper-Lead

Engineering Report

By M. H. Howes
Mining engineer
Bureau of Mines

GOLDEN SUNSET MINING CO.
JUAB COUNTY, UTAH

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ILLUSTRATIONS

Fig. 1 Location map, Golden Sunset Mining Co., Juab County, Utah
Fig. 2 Plan of claims and proposed exploration projects.

INTRODUCTION

Application for government aid for an exploratory project, planned for a search for copper and lead ores, was made May 31, 1951, by the Golden Sunset Mining Co., Mammoth, Utah, under Docket DMA-1615X.

A field examination of the property was made by M. H. Howes, mining engineer, Bureau of Mines, and R. M. Smith and H. R. Craig, geologists, Geological Survey, November 5 through November 8, 1951, for the purpose of determining the geological probability of discovery and the feasibility of the proposed project.

ACKNOWLEDGMENTS

Officials of the Golden Sunset Mining Co. were helpful in submitting data pertinent to this report.

Harry Pitts, chief engineer, Chief Consolidated Mining Co., Eureka, Utah, provided much useful data concerning the history, geology, production and properties of the Tintic district.

Reference was made to U.S.G.S. Professional Paper 107.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property is on Quartzite Ridge, 2 miles southeast of Eureka and about 1 mile northwest of Mammoth in Juab County, Utah, T. 10 S., R. 3 W., S.L.B. & M. Quartzite Ridge is a rugged, elongated, steep-sloped hill rising from an altitude of 6,100 feet at its toe on the south to 7,300 feet at its peak to the north.

The climate is semiarid. Summers are hot and dry and winters are cold with moderate snowfall. Snow melts rapidly on the south slopes and

all-year mining operations are easily conducted.

Scanty vegetation consists of low sage brush and scattered, scrubby pinion pines and cedars.

HISTORY AND PRODUCTION

Exploration, started in 1905 from surface indications of copper, lead, gold, and silver, and conducted intermittently through 1941, consists of a shaft sunk 155 feet on the Della claim, an adit driven easterly for more than 1,200 feet from the West Side Contact claim to the Della claim, a 350-foot inclined shaft sunk at the south end of the West Side Contact claim, and numerous pits, shafts, and trenches scattered over the property. Samples taken from small mineralized areas on the property assayed as high as 4 percent copper and 20 ounces silver per ton.

No production has been recorded.

OWNERSHIP AND EXTENT

The Golden Sunset Mining Co. is a corporation which owns seven patented and four unpatented lode mining claims with no liabilities or liens. The patented claims are the West Side Contact, Good Fraction, Thomas, Sun Set Number Four, Topic Mining Claim No. 2, Rising Sun, and Della, totaling 92.062 acres.

DESCRIPTION OF THE DEPOSITS

Sedimentary rocks on the property are of Cambrian age and consist entirely of the Tintic quartzite series. The only igneous body observed is an intrusive rhyolite porphyry dike, 40 to 50 feet thick, appearing near the central part of the property. Quartzite Ridge is on the east

limit of a great, northerly-striking anticline, the top of which has been removed by erosion. The beds, slightly overturned, strike slightly east of north and dip from vertical to 80° westerly. Numerous scattered fractures and bedding slips occur on the surface and throughout the underground workings, especially in the vicinity of the rhyolite porphyry dike. Many of these breaks are vuggy and slightly mineralized with iron oxide, barite and quartz.

Four samples were taken on the property. The assay results are listed as follows:

Sample No.	Location and description	Assay, percent				
		Cu	Pb	Zn	Au	Ag
1	Della shaft dump, selected grab sample of quartz	<.05	<0.1	<.05	<.005	<0.1
2	Della shaft dump, selected grab sample of rhyolite	<.05	<0.1	<.05	<.005	<0.1
3	Della discovery pit, grab sample of rhyolite	<.05	<0.1	<.05	<.005	<0.1
4	Station A in tunnel, 3-foot cut across quartzite-rhyolite contact	<.05	<0.1	<.05	<.005	<0.1

MINABLE ORE RESERVES

No minable ore reserves have been developed on the property.

PRESENT STATUS

No exploration or development is being carried on at present.

No mining or milling equipment or other facilities are on the property.

PROJECT PROPOSALS WITH COSTS

No specific proposals for exploratory work were outlined in the application for assistance. However, discussions with representatives of the company resulted in proposals as shown.

It is proposed that exploratory work for the purpose of discovery of copper and lead ores on the Golden Sunset Mining Co.'s property be conducted and divided into three projects as follows: (fig. 2)

Project 1

The north drift, from the adit driven westerly from the West Contact claim, will be extended northerly in or along the intrusive rhyolite porphyry dike for a distance of 1,200 feet. Crosscuts will be driven through the dike from the drift at intervals of 100 feet. It is estimated that 600 feet of crosscutting will be required.

Project 2

A crosscut 400 feet long will be driven easterly from the east face of the tunnel to the boundary line of the property.

Project 3

The south drift from the tunnel will be extended southerly in or along the dike for a distance of 900 feet to the boundary line of the property.

Time Schedule (26 work days per month)

Access Road

1/4 mile grading and 300 feet rock excavation	2 men, 10 days or 2 weeks

Construction

Building for compressor, store room, switches, and office	2 men, 30 days or 5 weeks

Compressor

Base and installation	2 men, 6 days or 1 week

Tunnel Rehabilitation

Clean up, retimbering, enlarging and straightening, laying of track and pipe	2 men, 30 days or 5 weeks
Total ----------	6 men, 26 days or 1 month

Project 1

1,800 feet drifting and crosscutting at 10 feet per day advance (2 shifts)	8 men, 180 days or 7 months

Project 2

400 feet crosscutting at 10 feet per day advance (2 shifts)	8 men, 40 days or 1½ months

Project 3

900 feet drifting at 10 feet per day advance (2 shifts)	8 men, 90 days or 3½ months
Total time for entire program --	336 days or 13 months
Plus 1 month for delays --------	14 months

Costs

Labor

1 laborer (trammer, mechanic, carpenter, or other classification, same base pay as for miner) at $12.05 per day plus overtime plus 11 percent payroll taxes	$14.50 per day

Supervision

Includes engineering, bookkeeping, sampling, etc. at $400 per month plus 11 percent payroll taxes $442 per month, or	$17.00 per day

Materials

Mine track (two 12-lb. rails, splice bars, spikes, bolts, and ties)	$ 0.80 per foot
2-inch pipe	.35 per foot

Other Costs (work day consists of two shifts)

Power (compressor, battery charger, lights)	$ 6.00	per day
Explosives (powder, caps and fuse)	3.60	per ft. advance
Drill steel and bits	1.10	do.
Timber	.80	do.
Assaying	.50	do.
Transportation of supplies	.50	do.
Maintenance and repairs of equipment	.50	do.
Miscellaneous	.50	do.

Equipment

2 drifters, used at $300 each		$600.00	
1 jackhammer, used		75.00	
1 stoper, used		100.00	
1 360-cu. ft. compressor	$5,000.00		
Base (concrete and labor)	200.00		
Installation	50.00	5,250.00	
1 water tank and pump for compressor		300.00	
1 air receiver, used		150.00	
2 drill columns, used, at $60 each		120.00	
2 water pressure tanks, used, at $30 each		60.00	
150 feet, 1-inch air hose at $1.00 per foot		150.00	
150 feet, 3/4-inch water hose at $1.00 per foot		150.00	
1 Eimco loader, used		1,500.00	
8 mine cars, used, at $125 each		1,000.00	
1 Mancha trammer with batteries and charger, used		2,000.00	
1 Pickup truck		2,500.00	
Miscellaneous small tools		500.00	
Total equipment costs			$14,455.00
Transportation of equipment			$ 250.00

Facilities

Power

1,250 feet power line (cost and installation)	$1,000.00	
Transformers (cost and installation)	1,500.00	
Switches (cost and installation)	500.00	
		$3,000.00

Building for compressor, storeroom, switches, office

Labor, 2 men, 30 days at $14.50 per day each	$ 870.00	
Materials	1,130.00	
		$2,000.00

Access Road

Labor, 2 men, 10 days at $14.50 per day each	$ 290.00	
Explosives	75.00	
Compressor, steel, bits, etc.	135.00	
Bulldozer, 5 days at $100 per day	500.00	
		$1,000.00

Rehabilitation of Tunnel

Labor, 2 men, 30 days at $14.50 per day each	$ 870.00	
Explosives	100.00	
Compressor, steel, bits, etc.	180.00	
1,250 feet mine track at $0.80 per foot	1,000.00	
1,250 feet of 2-in. pipe at $0.35 per foot	437.50	
Timber	500.00	
		$3,087.50
Total facilities cost		$9,087.50

Project 1

Labor, 8 men at $14.50 per day each	$20,880.00
Supervision at $17 per day	3,060.00
1,800 feet mine track at $0.80 per foot	1,440.00
1,800 feet 2-inch pipe at $0.35 per foot	630.00

Power at $6 per day ----------	$ 1,080.00	
Explosives at $3.60 per foot ----------	6,480.00	
Drill steel and bits at $1.10 per foot-	1,980.00	
Timber at $0.80 per foot ----------	1,440.00	
Assaying at $0.50 per foot ----------	900.00	
Transportation of supplies at $0.50 per foot	900.00	
Maintenance and repairs of equipment at $0.50 per foot	900.00	
Miscellaneous at $0.50 per foot -------	900.00	
Cost, project 1 ----------		$40,590.00
Cost per foot advance, $22.55		

Project 2 (400 feet, 40 days)

400 feet at $22.55 per foot advance ----------	$ 9,020.00

Project 3 (900 feet, 90 days)

900 feet at $22.55 per foot advance ----------	$20,295.00
Total cost entire program ----------	$93,697.50
Total cost per foot advance ---------- $30.23	

Transportation, Access Roads

U. S. paved highway No. 6 and the Mammoth branch line of the Denver and Rio Grande Western Railroad are about 1/4 mile air line from the portal of the tunnel. About 3/4 mile of access road has been constructed from Highway 6 toward the mine, but lacks 300 feet of reaching the mine dump, and the last 1/4 mile needs grading.

Manpower

Although manpower is not in excess in the Eureka area, it is believed possible to acquire a sufficient number of miners to complete the proposed exploration and to carry on any subsequent mining operation.

Power

Power is available from a Utah Power and Light Co. transmission line within 1,200 feet of the mine workings.

Water

Sufficient water for mine operation can be obtained from the main Mammoth supply line about 1/4 mile distant.

PRODUCTION PLAN

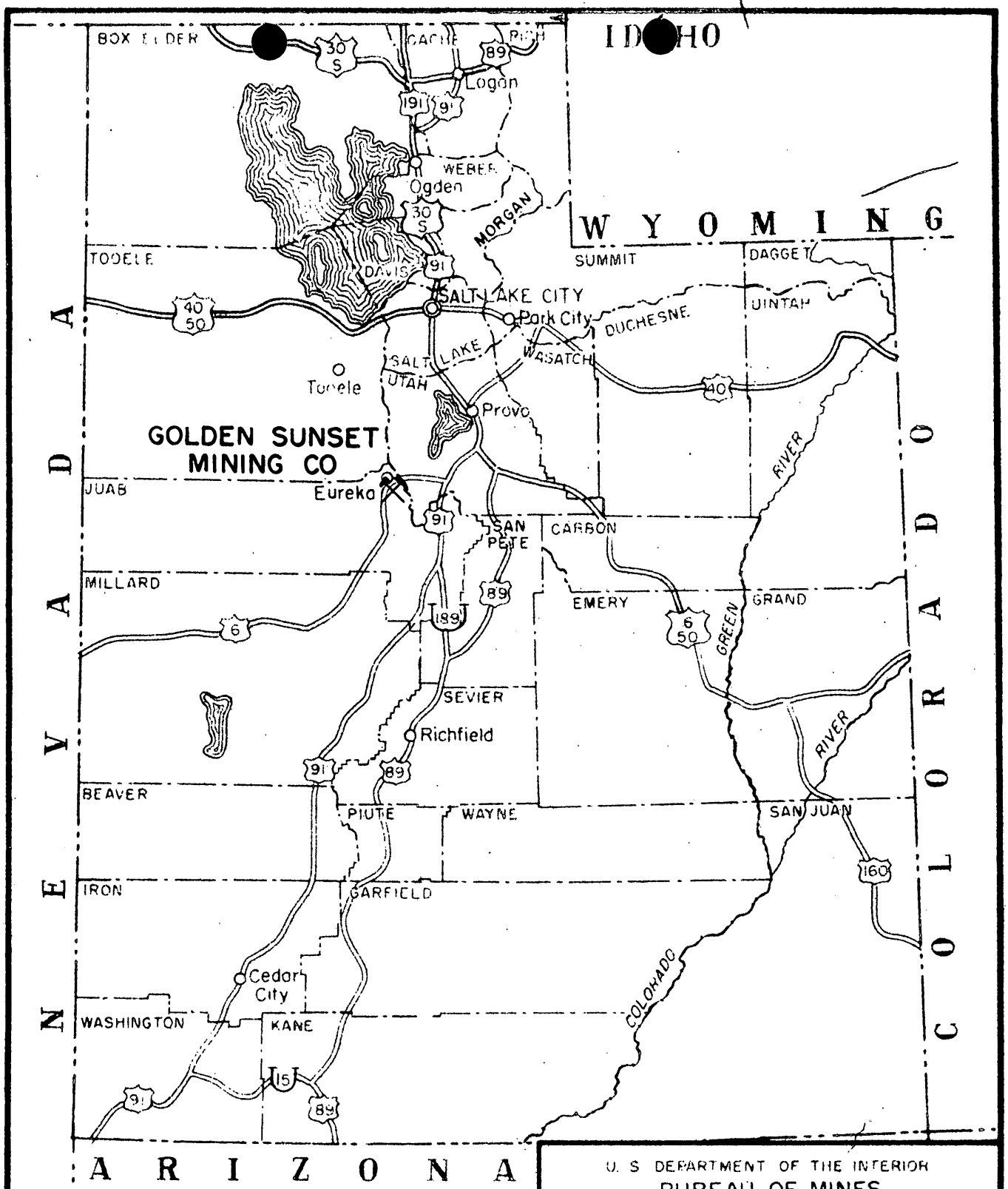
No definite production plan has been devised. However, it is believed that standard underground mining methods will be used if ore bodies of commercial size and value are discovered.

CONCLUSIONS AND RECOMMENDATIONS

Property of the Golden Sunset Mining Co. lies in close proximity to mines which have had large production of lead, zinc, copper, gold, and silver ores, chiefly from replacement of limestone and to a lesser extent from fissure deposits in quartzite and intrusive rocks. The Golden Sunset Mining Co. claims cover outcrops of Tintic quartzite which has not been notably productive except in the eastern part of the Tintic district in the Eureka Standard, Tintic Standard, Eureka Lily and North Lily properties. Here the deposits yielded high-grade gold and silver ores with small amounts of copper, lead and zinc.

No mineralization of sufficient strength to be termed ore has been found on the property. Samples taken at the time of examination carry small amounts of copper, lead, zinc, gold and silver. The company reports that significant quantities of gold have been found in samples

taken at the surface. It is concluded that chances for discovery of copper or lead deposits of commercial size are not promising. It is therefore recommended that the request for an exploratory loan on the property of the Golden Sunset Mining Co. be denied.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

FIG. 1. PROJ. NO.

Location Map

GOLDEN SUNSET MINING CO.

JUAB COUNTY, UTAH

ENGINEER *M. H. HOWES*	DATE NOV. 30, 1951
TRACED NOV., 1951; A.P.T.S.	1400-127-E
CHECKED	

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LIST OF ILLUSTRATIONS

Figure 1. Index map of Utah.

Figure 2. Geologic map of Quartzite Ridge.

Figure 3. Geologic map of tunnel.

Docket DMA-1615X, Golden Sunset Mining Company

Mammoth, Utah

GEOLOGY

The Golden Sunset Mining Company property is on Quartzite Ridge, in the extreme west part of the Tintic Mining District, Juab County, Utah. An adit, the portal of which is approximately 3,800 feet northwest of the town of Robinson, is the only accessible opening.

The district is underlain by sedimentary rocks of Paleozoic age, ranging in age from lower Cambrian (Tintic quartzite) to upper Mississippian (Humbug formation). The Paleozoic rocks are folded into an assymmetrical syncline, plunging to the north; the west limb is slightly overturned to the east. The sedimentary rocks in the southern part of the district are intruded by the Silver City monzonite porphyry and the Swansea rhyolite porphyry, both of Tertiary age. On the northeast, the older rocks are overlain by the Packard quartz-latite and tuff, and on the east by andesite, also both of Tertiary age.

The adit is in the Tintic quartzite formation. A dike of Swansea rhyolite porphyry, approximately 30 feet thick, is exposed near the end of the adit and on the surface. A sill of altered andesite 23 feet thick is exposed in the adit, 260 feet from the portal. The intrusive body is also exposed at the surface, where it is 18 feet thick.

The quartzite strikes from N. 10° - 20° E. and dips 56° - 88° SE. Bedding plane faults are very numerous, and nearly all contain clay gouge, from 1 to 13 inches thick; quartzite breccia is generally found mixed with

the clay. About 850 feet from the portal of the adit there is a zone of crushed and brecciated quartzite, which is associated with a small fold. Iron oxide and some clay are present in the crushed zone. The contacts of the quartzite with the altered sill and with the rhyolite porphyry are marked by gouge, and there may have been some movement along them.

ORE DEPOSITS

There is little evidence of mineralization. Gold values are reported at several places, but no shipments have been made.

No ore minerals were seen anywhere in the workings, except for staining by iron oxides in the crushed zones in quartzite and rhyolite. Four samples of iron-stained rock were taken and assayed by the U. S. Bureau of Mines. The results are as follows:

	Au	Ag	Cu	Pb	Zn
Della Shaft Dump, selected grab sample - quartzite:	<.005	<0.1	<.05	<.1	<.05
Della Shaft Dump, selected grab sample - rhyolite:	<.005	0.1	<.05	<.1	<.05
Della Discovery grab sample - rhyolite:	<.005	<0.1	<.05	<.1	<.05
3-foot cut at tunnel station A - rhyolite:	<.005	<0.1	<.05	<.1	<.05

Most of the ore deposits in the Tintic district are replacement deposits in limestone and dolomite. Many of these deposits are blind, i.e. they do not crop out at the surface. It is the applicants' hope that such replacement deposits will be found in quartzite and rhyolite on their ground, but none of

the samples collected show more than a trace of base metals or precious metals, and there is no sound basis for planning an exploratory program.

PROPOSED EXPLORATION

The exploration program originally proposed by the applicant was modified at the time of examination. He now proposes the following three projects:

1. Drift 150 feet north along the quartzite-rhyolite contact beneath the Della shaft; if no ore is found there, continue drift 1,200 feet toward end line of property, crosscut each 100 feet through dike.
2. Crosscut 400 feet east to intersect contact of Tintic quartzite and Ophir shale.
3. Drift south 900 feet to end line of property.

As there is little likelihood that the ground north, east, and south of the present workings is more favorable than ground already explored, the projects appear to be unsound. No significant copper metallization has been found in the area, and the chance for the discovery of commercial deposits of base metals is not good.

SUMMARY AND CONCLUSIONS

The Golden Sunset Mining Company property is in the lower Cambrian Tintic quartzite. The quartzite is intruded by a dike of Swansea rhyolite porphyry and an older sill of altered andesite. The quartzite strikes about N. 15° E. and the average dip is 80° - 85° E. No ore is apparent in the workings, although some gold values have been reported on the surface.

The examining geologists conclude that the outlook for the discovery of copper deposits of significant size on the property is small, and therefore recommend that the applicant's request for an exploration loan be denied.

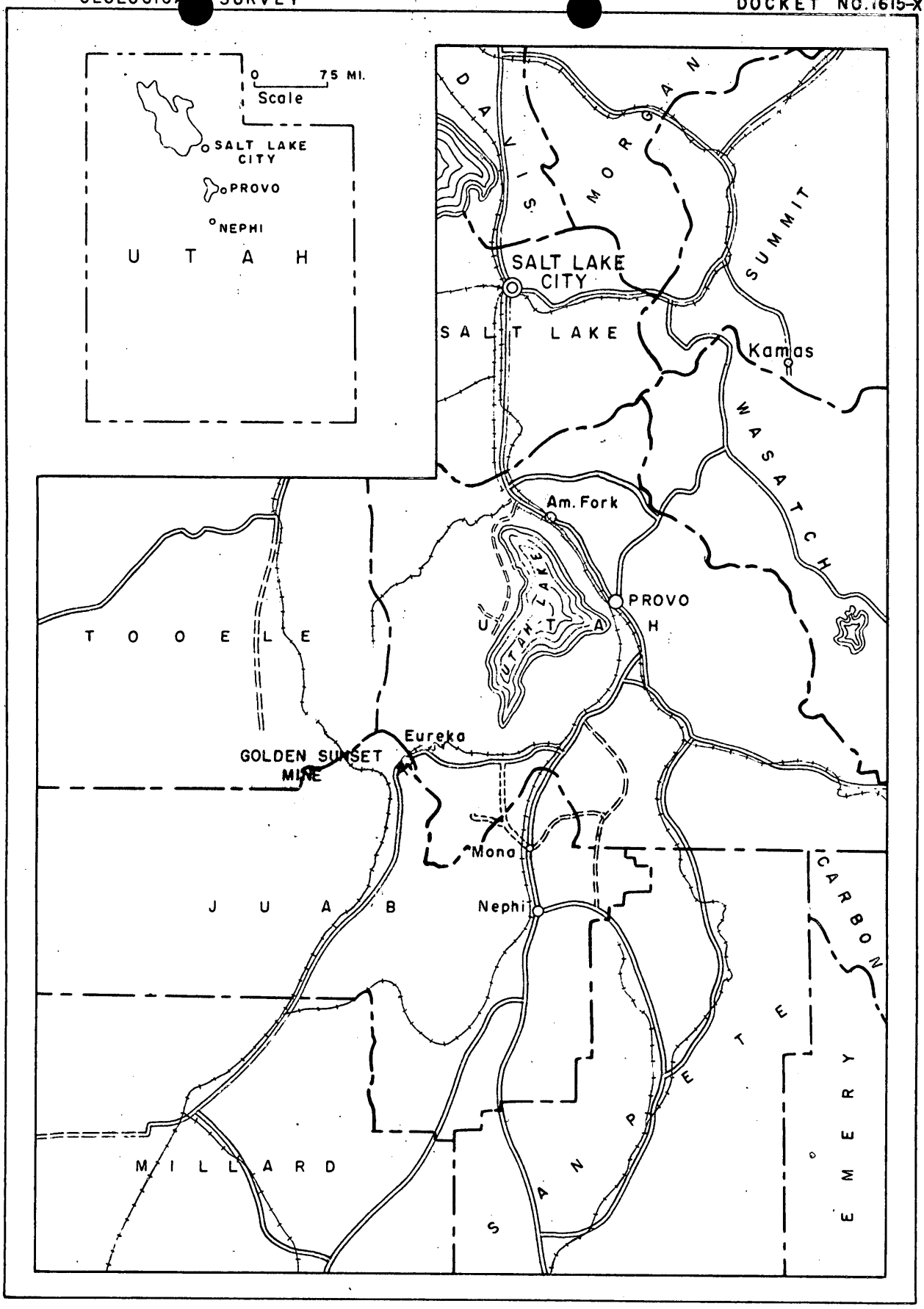

FIG. 1

INDEX MAP OF CENTRAL UTAH

0 5 10 15 20 MILES
Scale

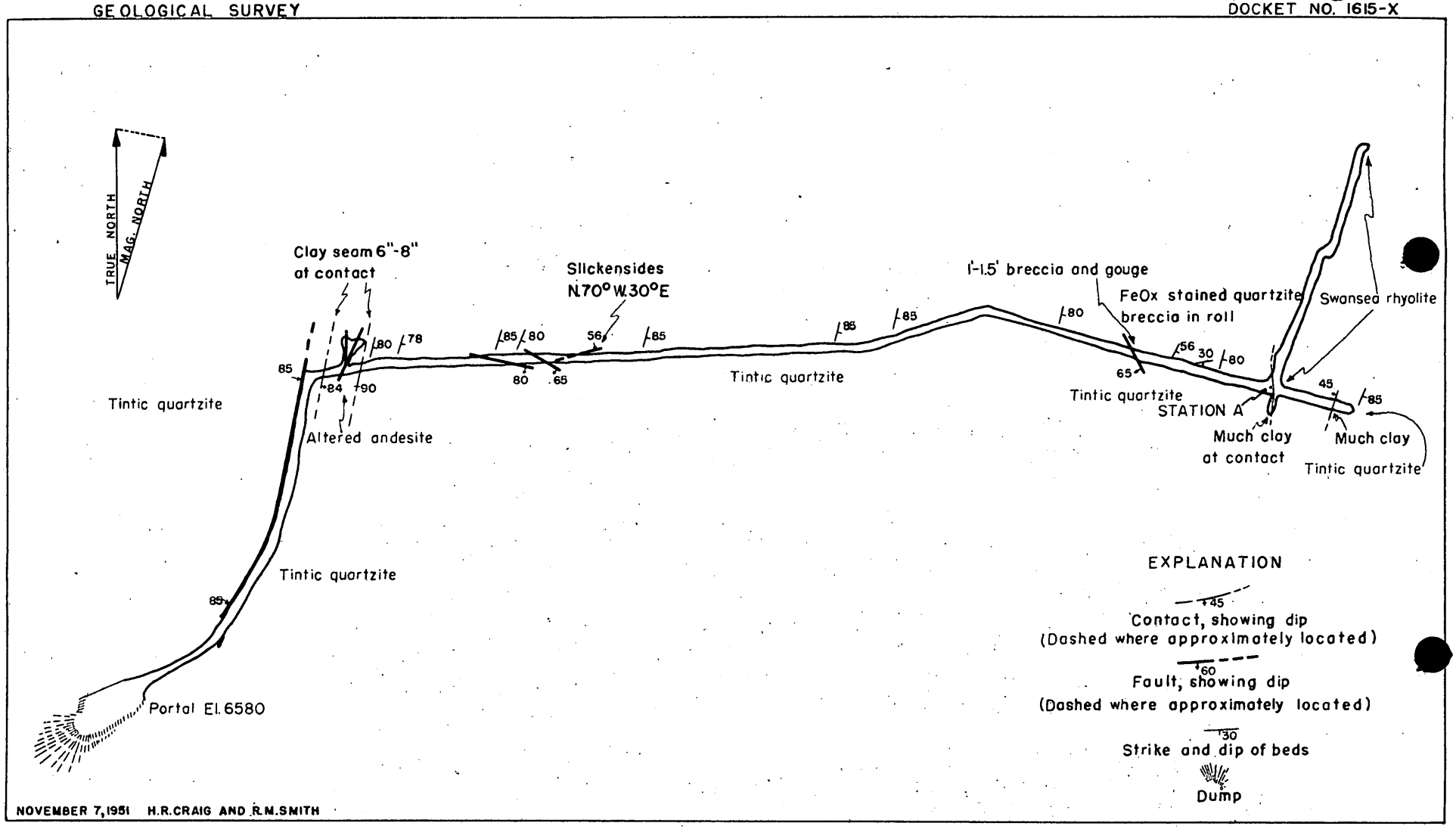

FIG. 3

GOLDEN SUNSET MINING CO.

MAMMOTH, UTAH

PROSPECT TUNNEL

0 100 200 FEET
Scale

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

OCT 12 1951
REGIONAL DIRECTOR'S OFFICE
REGION IV
OCT 15 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team IV
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

Dear Sir:

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

Docket No. 1615X

Commodity Copper

Applicant Mr. Axel Wahlberg, Golden Sunset Mining Company, Mammoth, Utah

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

Very truly yours,

For the Chairman
Coordinating Committee

For the Bureau of Mines

For the Geological Survey

FILE COPY
SURNAME:

Gowen

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

July 24, 1951

Re: Docket No. [illegible]-1615X

Mr. Axel Kohlberg, President
Golden Sunset Mining Company
Juab County
Nephi, Utah

Dear Mr. Kohlberg:

In your letter of May 29, 1951 to Mr. [illegible], Jr., 224 New Customhouse Bldg., Denver 2, Colorado which was attached to your application for government aid for your company's exploration project, you ask the question and we quote: "If property is worthy of the loan from the Government must the company have the cash ready or could operators start on government money until sale of stock is completed?" In answer to this question it will be necessary for you to have sufficient money to meet your operating costs for the first month and at the end of each month the government will pay its share. The answer to your question is best stated in the press release of May 14, 1951 and for your information we are enclosing a copy of this release, also a copy of the April 11, 1951 press release. We also believe that prior to negotiating a contract with the government you should be assured of sufficient funds to carry out the project.

To process your application we would need more detailed information on your costs such as the cost of hoisting equipment, cost of preparing drifts and the total amount of drifting to be done with the cost.

Upon the receipt of this information we will proceed with the processing of your application.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Enclosures:

JWAltsez

Copy to: Executive Officer, DMA Field Team Region IV, w.c.i.
Reports & Records Branch, w.c.i.
Copper Branch, w.c.i.
Files

Docket 1615

B

310
FILE COPY
SURNAME:

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

RVWaugh
Branch

July 18, 1951

Re: Docket No. 1615X

Mr. A Waklbert
Eureka, Utah

Dear Mr. Waklbert:

This is to acknowledge your letter of July 6, 1951 with its enclosure of additional information on your property.

We wish to thank you for submitting this new material which will help in the processing of your application. This information will be incorporated with your application which we have on file.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

RVWaugh:jp

Copy to: Region IV, J. H. East, Jr., DMA Field Team
Copper Branch, w.c.i.
Reports and Records Branch, w.c.i.
Files

Eureka, Utah,
July 6, 1951.

Mr. J. B. Gowen, Chief, Copper Branch,
U. S. Departmentof the Interior,
Defence Minerals Administration,
Washington 25, D. C.

Dear Sir:

answered 7/10/51

The enclosed Engineers Report on the Golden Sunset Mining Company was not available at the time the original application for a loan was made by this company.

I trust this report will give you a clearer picture of the property we are trying to develope.

This report will be a part of the papers in connection with the original application mailed to you about May 30, 1951.

Respectfully yours,

Fred Johnson,
Eureka, Utah.

A. Swahlberg
President & Gen Mangr.

Project # D.M.A.-1615X

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 10 1951

FILE COPY
SURNAME:

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

June 18, 1951

Mr. Axel Wahlberg
President
Golden Sunset Mining Co.
Juab County
Mammoth, Utah

Subject: DMA-1615X
Re: Exploration Loan
Golden Sunset Mining
Company

My dear Mr. Wahlberg:

Receipt is acknowledged of your application and attachments of May 31, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1615X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on June 11, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1615X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

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

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1615X

Commodity Copper

Total Amount $100,000.00

Govt. Participation $50,000

1. Name and Address of Applicant Golden Sunset Mining Co. Mammoth, Utah.

2. Location of Property Utah County, Utah

3. Mineral or metal Copper Is it listed in Section 9 of MO-5? yes

If not, application will be rejected.

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

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

a) Good

b) Poor

c) None

d) Don't know—needs field examination ✓

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

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

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

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

*question numbers are those of MF-103

7. Are subordination agreements necessary? No

a) MF-201? —

b) MF-202 —

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

a) Available manpower Does not state

b) Equipment and supplies To be purchased
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)* ~~Yes~~ No

d) Water (question 13)* Yes

e) Power (question 13)* Yes

Is a field check needed on any of these points? Yes

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

Is a field check needed on this point? Yes

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

a) Is the project adequately described? No

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

b) Is there an adequate map or sketch of the proposed work? No

c) Is the proposed work "exploration" under the definition of Section 8, MO-5? ~~Yes~~ Not all

If not, what part of it is? everything but road grading repairs.

Is this part a worthwhile exploration project? Yes

d) Are the cost estimates detailed? No

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? No If so, attach a draft.

e) Are the cost estimates reasonable? No.

f) Should more information be requested from applicant?

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

11. Exhibit B (question 23-d)*

a) Is it applicable? Yes [illegible]

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

c) Is a field check needed? Yes

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

a) Is it applicable? Yes only e

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

c) Are rents and charges reasonable? No rentals

d) Is a field check needed? Yes. To check costs

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

a) Are there sufficient data? Yes

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

c) Is the schedule excessive for the work proposed?

d) Are the proposed wages and salaries reasonable? No

e) Is a field check needed? Yes

The amount requested is excessive for work proposed

Exhibit A

21-22 Exploration

Drifting northerly on fissure on fissure deposit with possible cross cuts on this fissure

After completion of installation of track, transformers, pipe, timber, buildings and other necessary work to start drifting, estimate 2 men can do drifting work and other details essential @ $12.05 per day (standard pay) or $50 per day. While drifters being secured and put in operating condition, expect to use 4 to 6 men outside installing compressor, erecting necessary buildings, and other outside work to get operations in place & drift to going. These men will be paid approximately same wages. If materials can be obtained, outside work should not take more than 30 to 60 days.

EXHIBIT B

INSTALLATION

ELECTRIC TRANSFORMERS + SWITCHES	$500.00
INSTALLATION OF POWER LINE	1000.00
BASE + INSTALLATION OF COMPRESSOR (360 CFM)	250.00
2" PIPE OUTSIDE TO FACE 1 DRIFT	125.00
TRACK - 12 LB. RAIL	350.00
	$2,225.00

Exhibit C

e) 2 keyner machines second hand, @ $300.00 each	$600.00
1 Jack Hammer " "	75.00
1 Stopes Machine " "	100.00
3600 ft of 12# rail @ $110.00 per ton, fish plates, bolts, spike, etc. estimated at	1300.00
1800 feet 2" pipe @ 35¢ per foot	630.00
Timbering machine - Second hand	1500.00
150 feet of 1 1/8" drill steel @ 30¢ per foot and 300 bits at 20¢ each	105.00
150 feet stopes steel @ 30¢ per foot	45.00
150 feet 7/8" Jack hammer steel @ 30¢ per foot	45.00
8 Mine cars @ $125.00 each	1000.00
Transformers	1500.00
Installation of power line	1000.00
Switches and installation	500.00
Compressor	5000.00
Air receiver	150.00
Water tank for compressor and pumps	300.00
150 feet 1" Air Hose @ $1.00 per foot	150.00
150 feet 3/4" Air Hose	150.00
Cross Bars - each	60.00
2 Pressure tanks @ $30.00	60.00
Small tools	500.00
Truck	4000.00
1000 track ties @ 20¢ each	200.00
Timbering 15 tunnel sets at $25.00 per set	375.00
Total	19,345.00

Exhibit D

a) 6 men @ $12.05 per day $72.30
4 men @ $12.05 per day 50.00
$122.30

b) Supervisions: Pres. and Gen. Manager $250.00 1/2 time
Sec'y: Treas. 250.00
Superintendent 400.00
$900.00

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? No

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

(All exploration must be completed within two years)

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

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? The feasibility of the project - To have applicant show what they propose to do. Cost of supervision appears to be high ~~Costs not detailed~~ ~~Applicant must apply for access road~~ (HR 105) Explain to applicant that he cannot start on Government money - letter written on this. Any information that field teams deems necessary in the processing of this application.

Reviewed by: J. W. Cell
D. H. MacIver
C. W. Lum
J. A. Gowen

Date 7/23/51

Applicants cost estimate totals only $22,592.00 - how does he justify remaining $77,408 he requests?

97692

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

DEFENSE MINERALS ADMINISTRATION
WASHINGTON, D. C.

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

JAN 21 8 18 PM '52

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1615X

Date received 6/5/51

Participation

Golden Sunset Mining Co.,
Mammoth, Utah,
Juab County

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application May 31, 1951

Estimated cost $100,000.00

Mineral or metal Metal

Percentage of Government participation 50%

Location of mine T.S. 10S - R. 3W.
Juab County, Between Mammoth and Eureka,

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

Golden Sunset Mining Co.,
(Name of company)

By Axel Stockelberg
(Signature of authorized official)

May 31, 1951.
(Date)

President & Gen Manager
(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

I

GOLDEN SUNSET MINING CO.

MAMMOTH, UTAH.

Form MF - 103

1. Coporation

2. _____

3. Axel Wahlberg, President and General Manager, Mammoth, Utah.
Thomas Chatwin, Secretary-Treasurer, and Director, Santaquin, Utah.

Andrew Steedman, Vice-President, Provo, Utah.
John Berquist, Director, Salt Lake City, Utah
Ivan Berquist, Director, Salt Lake City, Utah.
Gerald Cowan, Director, Salt Lake City, Utah.
Hollis Chatwin, Director, Santaquin, Utah.

4. Axel Wahlberg, 48 years in mining, Superintendent of Mammoth mine for a number of years. Mining and leasing experience in most of the Western States.

Thomas Chatwin, Assayer and Chemist.

Fred Johnson, Superintendent, 23 years as shift boss, safety and ventilation engineer, and General Foreman at Tintic Standard Mining Co., Dividend, Utah.

5. Owners of property.

6. No assets, no liabilities, no liens. 140 acres of patented ground, 80 acres of unpatented ground.

7. _____

8. No assets and no liabilities.

9. Having copper and lead ore, expect to pay 50% of the $100,000.00 estimated cost.

10A. Refer to claim map enclosed.

10B. On Della Claim drifting northerly on exposed fissure, at end of tunnel from claim of West side contact.

11. Present name of the property, Golden Sunset Mining Company, formerly called the Pasadena.

12. Location, appoximately 1 mile from Eureka and approximately 1 mile from Mammoth.
Railroad approximately 1000 feet from portal of tunnel.
Paved highway No. 6, 1000 feet from portal of tunnel.
Points of shipment at either Mammoth 1/4 of a mile, Silver City 1 mile, or Eureka 2 miles.

13A. Sufficient water at all times, though necessary to install a pipe line connecting with main supply line to Mammoth.

GOLDEN SUNSET MINING CO.

MAMOTH, UTAH.

13B. Amount of power to be determined, at least 100 H. P. Source of power is, from Utah Powerv& Light Co. Line to connect to is 1250 from portal of tunnel.

14. None. Facilities used in previous work has been stolen or destroyed.

15. To be shipped by trudk or truck to railroad and to mill or smelter offering the best contract or returns on type of ore found.

16. Exploration started in 1905 from surface indications showing Cu. Pb. Au. and Ag.
From surface indications the tunnel has been driven 1357 feet into hillside. In making this progress several veins or fissures were encountered showing values in Cu. Pb. Au. and Ag. Face of tunnel driven through 50 foot fissure showing assays of 4% Cu. 20 oz. Ag. and some lead.
Plan of development is to drive northerly on this fissure 300 to 400 feet to reach a cross fault which we have geological data indicating there should be a body of ore.
No commercial ore has been shipped.

Reason for suspension of operations - lack of funds necessary for labor, equipment, etc. Last work done in 1941.

16B. To the South of this property, 2000 feet, is the Swansea mine which has paid dividends of $750,000.00.
The Centennial Eureka, 1/4 mile to the North, 25 to 50 million dollars.
Mammoth mine 1/2 mile to the East $7,000.000.00.

16C. In 1919, Waldemar Lindgren made an extensive geological survey of this area and his report turned into the U. S. Government.

17. No production to date.

18. Has not operated since 1941.

18A. A fissure deposit in quartzite. Available maps enclosed.

18B. To be determined.

19. Conditions of property are answered in the foregoing or above questions.

20. Cu. Pb. Au. and Ag. Fissure deposits

GOLDEN NUGGET MINING CO.

MANTI, UTAH.

21. Drifting northerly on fissure deposit with possible cross cuts on this fissure.

Time required, less thantwo years time alloted by Government contract.

22. Maps enclosed show location of this property to adjacent producers.

Operators knowledge and experience in mining ore in quartzite in East Mintic District.

23. After completion of installation of track, transformers, pipe, timber, buildings and other necessary work to start drifting, estimate 4 men can do drifting work and other details essential @ $12.05 per day (standard pay) or $50. per day. While drift is being repaired and put in operating condition, expect to use 4 to 6 men outside installing compressor, erecting necessary buildings, and other outside work to get operations in face of drift to going. These men will be paid approximately same wages. If materials can be obtained, outside work should not take more than 30 to 60 days.

6 men @ $12.05 per day		$72.30
4 men @ $12.05 " "		50.00
		$122.30

23B. Supervision:

Pres. and Gen. Manager	$250.00	1/8 time
Sec'y-Treas.	250.00	
Superintendent	~~$100.00~~	
	400.00	

23C. There are no existing facilities or buildings.

23D. Building of Compressor room, store room and office, estimated at cost of $3,500.00.

23E.

2 Leyner Machines - second hand, @ $300.00 each	$ 600.00
1 Jack Hammer - " "	75.00
1 Stoper Machine " "	100.00
3000 feet of 12# rail @ $110.00 per ton, fish plates bolts, spikes, etc. estimated at	1500.00
1800 feet 2" pipe @ 35¢ per foot	630.00
Tucking machine - Second hand	1500.00
150 feet of 1-1/8" Drill steel @ 30¢ per foot, and 300 bits at 20¢ each	105.00
150 feet Stoper steel @ 30¢ per foot	45.00
150 feet 7/8" Jack hammer steel @ 30¢ per foot	45.00
8 Mine cars @ $125.00 each	1000.00
Transformers	1[illegible]0.00
Installation of power line	1000.00
Switches and installation	500.00

GOLDEN DUNES MINING CO.

MAMMOTH, Utah.

23. Compressor	$5000.00
Air receiver	150.00
Water tank for compressor and pump	300.00
150 feet 1" Air Hose @ $1.00 per foot	150.00
150 feet 3/4" Air Hose	150.00
Cross Bars - each	60.00
2 Pressure tanks @ $30.00	60.00
Small tools	500.00
Truck	4000.00
1000 Track ties @ 20¢ each	200.00
Retimbering 15 tunnel sets at $25.00 per set	375.00
300 feet of road to be shot and graded) 1/4 of a mile to be graded)	1000.00

24. After project is approved, if necessary materials are available, necessary work to get operation in order will take 1 to 2 months.
Progress expected to be made is 4½ to 5 feet per shift.
Money expected to spend is on labor, power, explosives, supervision, transportation of materials, repairs for such breakdowns as may occur, equaling a plus or minus of $125.00 per day, or a plus or minus of $25.00 per foot of drifting.
Expect that after "kinks" are ironed out that it will be possible to put on two shifts to speed up the operations.

- Insurance Depreciation

[illegible] & charges - [illegible] 200

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 5 - 1951
LANDON F. STROBEL
Executive Secretary

Golden Sunset Mining Co.

Mammoth, Utah

July 30, 1951.

U. S. Dept of Interior Re: Docket No. DMA 1615X

Defense Minerals Administration
Washington 25, D. C.

Mr. J. R. Gowan, Chief, Copper Branch

Dear Mr. Gowan:

We received your letter asking for more details regarding the installation of equipment, cost of repairing drift, and total amount of drifting to be done.

It is rather difficult to arrive at a definite figure so the estimate in this report can only be done in plus or minus figures.

In our original request, Form MF 103, we outlined the approximate cost of necessary materials. The installations and repairs are as follows:

Storeroom, compressor house, electric switchhouse -	$4000.00
Electric transformers and switches (cost and installation)	1500.00
Installation of power line	1000.00
Base and installation of compressor (360 cubic feet)	250.00
Retimbering and cleaning up the debris in drift 15 sets @ $25.00 per set	375.00
Installation of 2" pipe, outside to face of drift	125.00
Installation of track 12 lb. rail	350.00
Drifting - 400 feet @ 30.00 per feet	12,000.00

The objective of this drift is to strike what we think a favorable contact which may be 300 to 400 feet away. On contact of this fault it may be necessary to either sink or raise depending upon such conditions as are found.

So far we have not made a definite decision as to disposal of stock, but are absolutely sure if there is the least encouragement from your department that this is a feasible project, the stockholders will immediately take the necessary steps for sale of capital stock and assessments to meet their part of this job. This is a strategic location and it is due to the lack of interest in smaller properties there has been no work done since 1941.

We appreciate your response to this project, also the enclosures sent to us, as they are of value to read the answers to the questions which are always coming up in this sort of a venture.

We hope the information enclosed is sufficient to make a more clear picture of this project to you.

Thanking you very much for your attention in this matter we remain

Very truly yours,

(sgd) Axel Wahlberg
President and General Manager

Golden Sunset Mining Co.

Mammoth, Utah

C O P Y

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

U. S. GEOLOGICAL SURVEY
RECEIVED
OCT 22 1951
MINERAL DEPOSITS BRANCH

224 New Customhouse
Denver 2, Colorado

October 17, 1951

Memorandum

To: S. R. Wilson (with brochure)

(Through Chief, Mining Division, Region IV)

Ralph Roberts

From: DMA Field Team, Region IV

Subject: DMA Docket 1615X, Golden Sunset Mining Company, applicant; Delta Copper Mine, Juab County, Utah

Enclosed herewith is the application of the subject docket for an exploration loan of $100,000 and a review by the Coordinating Committee.

The proposed work is not adequately described, and the estimated costs are questionable. Field investigations are required to determine the geological probability of discovery and the feasibility of the proposed project.

Please return the brochure with your report.

J. H. East, Jr.

for A. H. Koschmann

Enclosure

1615 F

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 9-3-51

REFERRED TO:

1. Code 310
2.
3.
4.

5 1951

FOR:

---------- Action	---------- Recommendation
---------- Approval	---------- Record of ----------
---------- Comment	---------- Referring to ----------
---------- Conference	---------- 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.

Adams
Initials of sender.

G. E. C

GPO 16—63815-1

Golden Sunset Mining Company
Mammoth, Utah
Aug. 28, 1951

United States Dept. of The Interior
Defense Minerals Administration
Washington 25, D. C.

Re: DMA Docket No. 1615x

Mr. J. B. Gowen
Chief Copper Division

Dear Sir:

The enclosure is a copy from The Eureka Reporter, Mar. 23, 1923 taken from a resume of professional paper No. 107 by Waldemar Linggreen & G. F. Loughlin.

We hope this information may give you additional information as to the merits of this property.

Very truly yours,

Golden Sunset Ming. Co.

Axel Wahlberg

Axel Wahlberg Pres.& Gen. Mgr.

Enclosure in Copper Branch, Supply Division
R.W. 9/6/51

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 4 - 1951

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUN 1 - 1951
BUREAU OF MINES
DENVER, COLORADO

Ama-1615X

Eureka, Utah,
May 29, 1951.

Mr. J. H. East Jr.,
224 New Customhouse Bldg.,
Denver 2, Colo.

(Bureau of Mines)

Ans. 7/30/51

Dear Sir:

Enclosed is a request from the Golden Sunset Mining Co., Utah, (this property formerly called the Pasadena) asking financial assistance to get this property into operation.

On this particular area we refer you to professional paper 107 by Waldemar Lindgren, 1919.

Since his report rich ore bodies, in the quartzite, have been discovered in this district and showings made in this property indicate rich potential ore bodies.

The stockholders of this company are willing to put up from 50 to 75 thousand dollars as their part (50%) which will come from sales of treasury stock and assessments of outstanding stock.

This property is open and accessible and have made formal application at the Bureau in Salt Lake City for examination.

All questions have been answered to the best of our knowledge, also cost estimates and are enclosing such maps etc. that are availabel.

If property is worthy of the loan from the Government must the company have the cash ready or could operations start on Goverment money until sale of stock is completeed?

We are very anxious to get into operation and will appreciate anything you may be able to do to expedite the project.

Yours very truly,

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 5 - 1951
LANDON F. STROBEL
Executive Secretary

Postmarked 5/31/51

Axel Swahlberg
President & Gen Mngr.

(COPY)

DMA 1615 X

KNIGHT INVESTMENT COMPANY

Tintic Mines Department

Silver City, Utah

November 24, 1928

TO THE GOLDEN SUNSET MINING COMPANY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 10 1951
LANDON F. STROBEL
Executive Secretary

Mr. Thomas E. Chatwin

President & Manager

Mammoth, Utah.

Dear Sir:

Pursuant to your request I have examined the Surface and underground workings of the Golden Sunset Mining Company Nov. 18 to 22, 1928 and herewith submit my report thereon.

(Signed) Robert A. Wilkens
Mining Engineer

LOCATION

The Golden Sunset Mining Company is located in the S.E.$\frac{1}{4}$ of Sec. 23; S.W.$\frac{1}{4}$ of Sec. 24; N.W.$\frac{1}{4}$ of Sec. 25; and N.E.$\frac{1}{4}$ of Sec. 26, T. 10 S., R. 3 W., S. L. B. & M., the westerly rim of the central portion of the Tintic Mining District.

EXTENT

The holdings of the Golden Sunset Mining Company consist of the following unpatented mining claims:

West Side Contact Della Good Fraction Topic No. 1 Topic No. 2 Rising Sun Sunset Sunset No. 3 Sunset Extension Sunset No. 4 Anna Fraction	Have patented seven claims since this report was made.

Area approximately 160.0 acres. In view of the client's assurances, the titles have been assumed to be perfect.

SURFACE

The Golden Sunset Mining Company's property lies on Quartzite Ridge northwesterly $\frac{1}{2}$ mile from the town of Robinson. The west boundary line ranges from 6200 on the south to 6400 on the north in elevation, and the east boundary ranges from 6500 on the south to 7100 on the north. Both the westerly and easterly slopes from Quartzite Ridge are included.

GEOLOGY

The Golden Sunset Mining Company's property lies on Quartzite Ridge and may be termed the rim rock on the west side of the Tintic Mining District. The structure is disturbed considerably by faults of early age. The dip on the west side of Quartzite Ridge is about 80° westerly while on the east side the dip is to the east and flattens rapidly. Swansea Rhyolite lies to the south adjoining this property, and at least one intrusion is revealed in the Golden Sunset tunnel and it is well known that the Swansea Rhyolite is the source of valuable ore deposits. The Ophir shales and limestones lie on the easterly boundary of this property. These have been prolific producers of ores in

the Tintic Standard and North Lily mines located on the east rim of the Tintic Mining District. The Eureka Standard mine similarly located on the contact of quartzite and shales, valuable gold ore is found on the quartzite. In the North Lily mine a filling deposit of high grade ore makes in a fissure with quartzite walls. Faulting is abundant in these mines and has greatly aided in the preparation of the formations to receive and retain vast bodies of ores. In the Golden Sunset property the Quartzite itself is fissured and cross-fissured, and faulting is marked with overthrusths of quartzite overriding the shales on the east. One northerly and southerly fissure exposed in the tunnel is about 25 feet wide and filled in the center with Swansea Rhyolite while the walls are lined with shale. Along the easterly contact with the shales are local overthrusts of quartzite along the easterly faults, many systems of jointing were noticed, and crushing occurs in wide areas. The overthrust on the northeast is illustrated in Pl IV, Professional Paper No. 107, U. S. & G. S. and Plate XVI B., page 79. Easterly from the ridge much of the shale is over-ridden by the quartzite.

In the tunnel a crushed zone 53 feet wide is intercepted near the face (Exhibit 1) and contains altered shales, talc, decomposed Porphyry and crushed quartzite having a northerly and southerly strike. At sta. 2, in the tunnel a cross-fissure having a strike of S. 75° E. exposes altered shales and kaolinized material for a width of 20 feet. At sta. H.N.R. the tunnel leaves a fissure striking N. 20° E. and vertical dip, and quartzite dips 45° east into the fissure containing rhyolite mentioned above 25 feet wide. At F.N. Sta. plus 52 feet is a fissure filled with shale. At S. N2 plus 56 ft. is a fissure cutting the quartzite. At sta. 10 minus 80 ft. occurs a fault fissure crushed and broken nearly 30 feet wide carrying considerable iron.

In the incline shaft sunk along a 5° W. and S. 5° E. fissure about four feet wide, a cross-fissure 22 feet wide striking east and west and dipping 65° southerly, was intercepted showing a filling of iron and quartz. These examples of fissuring are enough to show that the quartzite is not massive as formerly held.

From the record of the Company assays from the outcrop north of the present face of the tunnel follows:

AU.	AG.	CU.
.25	37.0	12.0 %
.60	2.0	

From the incline samples were taken as follows:

AU.	AG.
.12	3.0
.06	7.0
.05	10.0
.04	30.0
Trace	5.0
.42	2.0

DEVELOPMENT

The development has been done from a tunnel 1034 feet in length and by incline shaft 300 feet deep. The tunnel has an elevation of about 450 feet to the surface. The shaft begins at an elevation of 6490 and gains at a vertical depth of 227 feet. A gasoline hoist serves the incline shaft and is capable of doing the work to a depth of 500 to 700 feet. The value of the equipment, hoist, car, rails and tools amount to about $2,000.00

LIABILITIES

None

ACCOUNTS

About $100.00 cash in treasury

ADVICE

In view of the successful mining in the quartzite and shales on the east side of the district where a similar condition exists, it seems that considerable depth is needed and at a point where the contact with quartzite and shales and easterly faulting has apparently prepared the formations to receive and retain ores from the rhyolite carrier and the course of which is undoubtedly along the line of least resistance between the quartzite and shales. If the tunnel were projected northerly from the face to the outcrops as shown on Exhibit 1, where precious values have been found, a suitable condition should be found from where a shaft could be sunk.

Respectfully submitted,

(Signed) Robert A. Wilkens
Examining Mining Engineer

DMA-1615X

ISOLATED SECTION OF TINTIC MAY BE FUTURE BONANZA

Treatise On Tintic Mining District, Utah, With Special Reference Given Lime Beddings, Lime Series Headed by Packard Rhyolite On the North, and Between the Tintic Quartizite On Both East and West Contours of the Tintic Range. Not Going Into Age or Source of Formations. Taking Resume from Professional Paper No. 107, by Waldemar Lindgreen and G. F. Loughlin, Plates 3 and 4 of Same. The Writer not a Geologist but a Student of Geological Work. By J. M. McShane, Silver City, Utah.

Lime Series and Later Disturbances.

Tintic Mining District being made up of a series of lime beddings of a north-south trend, through which is carried numerous cross breaks or small faults indicating considerable action after the building up of the lime series, caused later by upheavel of Packard Peak to the north, causing great disturbance with older formations, displacements and faults resulting in the present Jenny Lind, Eureka Creek and Homansville canyons. Old Iron Blossom crater heaving up and balancing east, creating Mammoth Gulch.

Packard Peak disturbance creating rhyolite, named Packard rhyolite, spreads its formation from quartzite on the west to the quartzite on the east side of the range. The Dagmar Hill disturbances balances west with contact of the Packard Peak upheavel and is forced west some 2400 feet by the compact and leaves a distinct divide at the head of Eureka Creek and Homansville canyons, practically isolating vast faulted lime beddings, which is continuation of the Tintic series, from main district series and zones, isolated between Jenny Lind and Eureka Creek faults and west of Cole Canyon.

Ore Zones Developed In Lime Beddings South of Eureka Creek Fault.

The Iron Blossom Ore zone developed in Blue Bell dolomite limestone and rhyolite, extends north through Pine Canyon lime to the Packard rhyolite disturbance.

Farther west and on the west slope of Iron Blossom crater and Godiva mountain is the developed Mammoth, Eagle & Blue Bell and Chief Consolidated ore zones, south end in Blue Bell dolomite and Opohongo limestone, extends north to Eureka fault and the Packard thyolite, carried through Gardner and Blue Bell dolomite contacts along east side of Eureka Peak.

Still farther west is the centennial Eureka ore zone running north from near Opex property, in Opex dolomite and Ajax limestone, extends north along west slope of Eureka Peak and reaches Cole Canyon dolomite through cross breaks reaching Eureka fault and the Packard rhyolite.

Area West of Centennial Eureka Ore Zone, South of Eureka Fault.

Swansea mine located south of Mammoth Gulch, in thyolite and monzonite against quartzite, produced a large amount of

lead-silver ore. On the north of Mammoth Gulch, west of Centennial zone and south of a line drawn west from Eureka Peak, appears a series of stepblock faults in Teutonic lime and Herkimer lime. However, these faults, while indicating disturbance, evidently caused by bulge in quartzite, the faults not connecting on either side or harmonizing with breaks with important contacts.

In this zone south of the eastwest line through Eureka Peak and west of Centennial Eureka ore zone, are located, Herkimer shaft which is 500 feet deep, just east of this is the Southern Eureka shaft also 500 feet deep. The Annendale shaft is in the same vicinity and is 200 feet deep. Small amount of crosscuts have benn run in these properties with no ore discoveries. No Disturbance noted except small fissures or step-block faults as shown on surface. Thus the short faults of cross-breaks with no direct connection with Quartzite and Ophir Brown shale contact to the west, or the ore zone to the east. leaves barren zone so far as present developments have disclosed.

Farther north on this same barren zone to the Eureka Creek fault, is a decidendly different condition aside from formation. This block being crossed by but one break, that being continuous from near the quartzite shale contact, extends north-east and seemingly void of any mineralization due largely to precipitations being carried through faults near Eureka Creek fault, into continuous lime beddings of less resistance southerly, which this continuous cross break fails to reach. This condition also leaves a barren zone and much resembles a solid block of limes, Teutonic, Dagmar and Herkimer, with no disturbance near the Eureka Creek fault and void of known distributing cross breaks necessary for ore building channels. This condition is very unlike the isolated section which is the continuation of these same lime beddings just north of the Eureka Creek fault, west of Cole Canyon, which is heavily faulted, numerous cross breaks from Quartzite-Ophir shale and Teutonic lime contacts extend easterly crossing lime series to ore zone of Gemini-Keystone properties. This ore zone, however, proves to be the north extension of the Eagle & Blue Bell and Chief Consolidated ore zone.

Plate 4 of the above named professional paper 107, shows on careful examination that a conclusion of this isolated section can only be arrived at by making drawings, placing the isolated section 2400 feet east of the present location, thereby showing exact condition of the district lime beddings as far north as Packard Peak, continuous, regular in character and accompanied with the ore bearing cross breaks which operate throughout the district as a medium precipitation distributing factor throughout the various beddings, gravitating to and through cavities and harmonizing with nature's formation program for the building up of ore bodies in these lime beddings, distributing through cross-breaks. Later, the upheaval of Packard's Peak, Eureka Peak and Iron Blossom crater, the combined forces breaking the lime series and shoving west, forming the now isolated section west of Eureka City, north of Eureka Creek and South of Jenny Lind Canyon, at the same time forming these canyons and the divide at the head of Eureka Creek and Homansville canyons.

Considering this heavily western slip of this isolated section, the Gemini and Ridge & Valley ore zone would be the north extension of the Eagle & Blue Bell and Chief Consolidated or zone, wwith cross breaks running westerly, surrounding the Dagmar crater and reaching Teutonic limestone, Ophir shale and Quartzite contact.

The westerly slip of this isolated section leaves a cove where the City of Eureka, Utah, now stands and the Packard rhyolite flows easily south to the faulted area through this cove at which point the ore zones from the south all ends, faults west would be expected to there continue on north to the Jenny Lind fault, there reaching the Packard rhyolite in

the same system as shown along the Homansville Canyon, east of the divide.

Much development in the rhyolite area north of Homansville Canyon and east of the divide, so far unproductive of commercial ore.

South of Homansville Canyon and in the edge of the rhyolite area and in the district lime series, is productive the same as that section west along Homansville and Eureka Creek faults, with the Packard rhyolite to the north, or heading the lime series of the district.

The Tintic Standard mine, located in this rhyolite and lime area south of Homansville Canyon, and exceedingly heavy producer, discovered first ore body after sinking shaft through surface of rhyolite, reaching over 600 feet dept, finds ore on Teutonic limestone, Ophir Brown shale and Quartzite contact. At this location, the surface overflow of rhyolite covers the lime, shale and quartzite contact, which has a dip toward the west of 80 degrees.

Conclusion:

There being no ore production of consequence, north of the Homansville fault which is east of the divide; west of the divide and west of the cove left by the heavy westerly slip o f the lime series, with Packardrhyolite joining on the north, and located north of the Eureka Creek fault caused by this westerly slip, isthe isolated lime north extension of the district lime, with an 80 degree dip to the east characteristic as to cross breaks shown in the producing section, with the same Teutonic lime, Ophir Brown shale and Quartzite contact as predominates in the Tintic Standard property dippingwest 80 degrees, located on east contour of the range, while the isolated section of same formation, contacts and 80 degree easterly dip,located on west contour with the same Packard rhyolite to the north. Here it might be stated that just north of this isolated section and north of the Jenny Lind fault, that portion of the lime series not obscure by rhyolite overflow, shown no cross breaks along the quartzite contact, however, but little of this contact visible north of Jenny Lind Canyon untill farther north and beyond the rhyolite formation.

The fact of the cross breaks in the producing lime series section operating as a solution distributing factor, contributing to ore deposits south of Eureka Creek fault and the fact of the Tintic Standard property discovering their ore on the Teutonic lime, Ophir shale and quartzite contact, as a comparison of exact conditions existing in this undeveloped lime series and contact country isolated north of Eureka Creek fault and west of Eureka, is becomingvery interesting. This condition,coupled with the fact that the ironoxide cropping to the surface between the quartzite and ophir shale, with Teutonic lime along the shale on the east, the cropping extending from near the Eureka Creek fault, northerly, almost to the Jenny Lind Canyon fault, with numerous cross breaks from this contact, suggesting action of precipitation distribution through and crossing the lime beddings, easterly to the Gemini ore zone, with the contact reaching the Packard rhyolite which seems to be the head of the Tintic ore zones, is an interesting condition of this isolated section.

Many of the western mining districts show heavy production along the lime and quartzite contacts, such as the Randsburg District in California, with its high mountain of rhyolite to the north of the ore zone. At Mina, Nevada, the Simon property with its rich silver-lead ore in the lime along the quartzite contact and showing strong mineralization for over a mile along this contact. The new camps tributary to Pioche, Nevada also have rhyolite north of their ore zones and the quartzite and lime contact develops to be their richest ore zone.

The only conclusion of this Tintic District isolated lime section is evidently the bonanza of the district, inreverse, awaiting

development.

Bearing this conclusion out, the Swansea mine is practically same formation to the south, the Scranton and New Bullion mines farther north on the same contact, all at one time good producers, strengthens the theory of this isolated section being the future bonanza of the district.

On the east slope of Dagmar Hill, in this isolated section, is the Dagmar shaft, in Dagmar and dolomite lime, 350 feet deep with showings of cube and steel galena spattered in dolomite spar. In canyon wouth-west of this shaft and near the quartzite, shale and Teutonic lime contacts, in heavily faulted zone are found iron, manganese oxide in shallow workings in various places, with occasional copper showings as well as spatterings of galena in dolomite spar.

Summing up these ore zones and extensions, the production had in the lime series south of Eureka Creek fault, the producing zone north of the fault, just east of Cole Canyon which can only be the north extension of the Eagle & Blue Bell and Chief Consolidated zone, the north extension of the Centennial Eureka zone would pass through this isolated section, cross breaks distributing around the Dagmar crater, carring deposits through various beddings accumulationg solutions for making of ore along contact, through breaks the entire width of this section to the present producing zone, the Gemini, Keystone and Ridge & Valley.

Sufficient encouragement is found in this isolated section to attract greater development and would form excellent basis for the incorporation of financial interest, for the development of this bonanza of Tintic.

Utah shows a wonderful 60-year period of mineral production, Tintic District contributing heavily with millions of dollars worth of ores marketed to the credit of the district, producing silver, gold, copper, lead, ironzinc, all coming from this Tintic lime series beddings.

Utah mineral activities have built up the largest smelter district in Utah, of the entire world. Making ready market within the state for all ores produced, short hauls and low freight rates, competition between the smelters for the ores results in a very reasonable smelter charge.

Utah ranks first in the production of silver, third in the production of lead and fourth in copper. As a whole, Utah produces the varied ores such as silver, gold, copper, lead, iron, zinc, salt, asphalt, limerock, cement, potash and coal and finds a ready market for it all near at hand.

Therefore, if you are looking for mining properties, other things being equal, select properties in Utah near the largest ore market of the world.

You are invited to investigate this isolated lime series section of the Tintic District, north of Eureka Creek fault and west of the City of Eureka, touched by the Union Pacific railroad, round up the 600 acres contained in this isolated section under one incorporation and develop the COMING BONANZA OF THE TINTIC MINING DISTRICT.

Earnest solicitation for the careful investigation, which would make possible the development of this isolated contact section, is extended all parties looking for mining properties.

310 FILE COPY
SURNAME:

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

Mr. Bower
Nelson
Johnson-Hen
Ron
H. Clay

OCT 12 1951 A.E.C.

Mr. Axel Wahlberg
Golden Sunset Mining Company
Nephi, Utah

Ref: Docket No. DMA-1615X

Dear Mr. Wahlberg:

This is to acknowledge your letter of August 28, 1951 enclosing some additional information on your property which has been added to your file and will be used in the processing of your application.

This is also to inform you that your application for exploration aid has been referred to the field team for further study. You will hear from Mr. J. H. East, Jr., Executive Officer, DMA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado or one of his staff when they are ready to visit your property.

Very truly yours,

SIGNED

A.B. Parsons, Acting Director
Supply Division

jf 10/12

RVWaughies
10/5/51
Copy to: Administrator's Reading File
Executive Officer, Region IV
J.H.Coven,
C.H.Johnson
D.MacLaren
Files - DMA Docket

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team IV
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

1615X

Copper
Mr. Axel Wahlberg,
Golden Sunset Mining Company,
Mammoth, Utah

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 - 1615 X

Date received 6/5/51

Participation

Golden Sunset Mining Co.,
Mammoth, Utah,
Juab County

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application May 31, 1951

Estimated cost $100,000.00

Mineral or metal Metal

Percentage of Government participation 50%

Location of mine T. 10S - R. 3W.
Juab County, Between Mammoth and Eureka,

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

Golden Sunset Mining Co.,
(Name of company)

By Wel Weahlbug
(Signature of authorized official)

May 31, 1951.
(Date)

President & Gen Mngr.
(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

I

GOLDEN SUNSET MINING CO.

MAMMOTH, UTAH.

Form MF - 103

1. Coporation

2. _____

3. Axel Wahlberg, President and General Manager, Mammoth, Utah.
Thomas Chatwin, Secretary-Treasurer, and Director, Santaquin, Utah.

Andrew Steedman, Vice-President, Provo, Utah.
John Berquist, Director, Salt Lake City, Utah
Ivan Berquist, Director, Salt Lake City, Utah.
Gerald Cowan, Director, Salt Lake City, Utah.
Hollis Chatwin, Director, Santaquin, Utah.

4. Axel Wahlberg, 48 years in mining, Superintendent of Mammoth mine for a number of years. Mining and leasing experience in most of the Western States.

Thomas Chatwin, Assayer and Chemist.

Fred Johnson, Superintendent, 23 years as shift boss, safety and ventilation engineer, and General Foreman at Tintic Standard Mining Co., Dividend, Utah.

5. Owners of property.

6. No assets, no liabilities, no liens. 140 acres of patented ground, 80 acres of unpatented ground.

7. _____

8. No assets and no liabilities.

9. Having copper and lead ore, expect to pay 50% of the $100,000.00 estimated cost.

10A. Refer to claim map enclosed.

10B. On Della Claim drifting northerly on exposed fissure, at end of tunnel from claim of West side contact.

11. Present name of the property, Golden Sunset Mining Company, formerly called the Pasadena.

12. Location, appoximately 1 mile from Eureka and approximately 1 mile from Mammoth.
Railroad approximately 1000 feet from portal of tunnel.
Paved highway No. 6, 1000 feet from portal of tunnel.
Points of shipment at either Mammoth 1/4 of a mile, Silver City 1 mile, or Eureka 2 miles.

13A. Sufficient water at all times, though necessary to install a pipe line connecting with main supply line to Mammoth.

GOLDEN SUNSET MINING CO.

MAMOTH, UTAH.

13B. Amount of power to be determined, at least 100 H. P. Source of power is from Utah Power & Light Co. Line to connect to is 1250' from portal of tunnel.

14. None. Facilities used in previous work has been stolen or destroyed.

15. To be shipped by truck or truck to railroad and to mill or smelter offering the best contract or returns on type of ore found.

16. Exploration started in 1905 from surface indications showing Cu. Pb. Au. and Ag.
From surface indications the tunnel has been driven 1357 feet into hillside. In making this progress several veins or fissures were encountered showing values in Cu. Pb. Au. and Ag. Face of tunnel driven through 50 foot fissure showing assays of 4% Cu. 20 oz. Ag. and some lead.
Plan of development is to drive northerly on this fissure 300 to 400 feet to reach a cross fault which we have geological data indicating there should be a body of ore.
No commercial ore has been shipped.

Reason for suspension of operations - lack of funds necessary for labor, equipment, etc. Last work done in 1941.

16B. To the South of this property, 2000 feet, is the Swansea mine which has paid dividends of $750,000.00.
The Centennial Eureka, 1/4 mile to the North, 25 to 30 million dollars.
Mammoth mine 1/8 mile to the East $7,000,000.00.

16C. In 1919, Waldemar Lindgren made an extensive geological survey of this area and his report turned into the U. S. Government.

17. No production to date.

18. Has not operated since 1941.

18A. A fissure deposit in quartzite. Available maps enclosed.

18B. To be determined.

19. Conditions of property are answered in the foregoing or above questions.

20. Cu. Pb. Au. and Ag. Fissure deposits

GOLDEN SUNSET MINING CO.

MAMMOTH, UTAH.

21. Drifting northerly on fissure deposit with possible cross cuts on this fissure.

Time required, less than two years time alloted by Government contract.

22. Maps enclosed show location of this property to adjacent producers.

Operators knowledge and experience in mining ore in quartzite in East Tintic District.

23. After completion of installation of track, transformers, pipe, timber, buildings and other necessary work to start drifting, estimate 4 men can do drifting work and other details essential @ $12.05 per day (standard pay) or $50. per day. While drift is being repaired and put in operating condition, expect to use 4 to 6 men outside installing compressor, erecting necessary buildings, and other outside work to get operations in face of drift to going. These men will be paid approximately same wages. If materials can be obtained, outside work should not take more than 30 to 60 days.

6 men @ $12.05	per day	$72.30
4 men @ $12.05	" "	50.00
		$122.30

23B. Supervision:

Pres. and Gen. Manager	$250.00 1/2 time
Sec'y-Treas.	250.00
Superintendent	~~4 [illegible]00.00~~ 400.00

23C. There are no existing facilities or buildings.

23D. Building of Compressor room, store room and office, estimated at cost of $3,500.00.

23E.

2 Leyner Machines - second hand, @ $300.00 each	$ 600.00
1 Jack Hammer - " "	75.00
1 Stoper Machine " "	100.00
3600 feet of 12# rail @ $110.00 per ton, fish plates bolts, spikes, etc. estimated at	1300.00
1800 feet 2" pipe @35¢ per foot	630.00
Mucking machine - Second hand	1500.00
150 feet of 1-1/8" Drill steel @30¢ per foot, and 300 bits at 20¢ each	105.00
150 feet Stoper steel @ 30¢ per foot	45.00
150 feet 7/8" Jack hammer steel @30¢ per foot	45.00
8 Mine cars @ $125.00 each	1000.00
Transformers	1500.00
Installation of power line	1000.00
Switches and installation	500.00

GOLDEN SUNSET MINING CO.

MAMMOTH, UTAH.

23E.	Compressor	$5000.00
	Air receiver	150.00
	Water tank for compressor and pump	300.00
	150 feet 1" Air Hose @ $1.00 per foot	150.00
	150 feet 3/4" Air Hose	150.00
	Cross Bars - each	60.00
	2 Pressure tanks @ $30.00	60.00
	Small tools	500.00
	Truck	4000.00
	1000 Track ties @ 20¢ each	200.00
	Retimbering 15 tunnel sets at $25.00 per set	375.00
	300 feet of road to be shot and graded)) 1/4 of a mile to be graded)	1000.00

24. After project is approved, if necessary materials are available, necessary work to get operation in order will take 1 to 2 months.
Progress expected to be made is 4½ to 5 feet per shift.
Money expected to spend is on labor, power, explosives, supervision, transportation of materials, repairs for such breakdowns as may occur, equaling a plus or minus of $125.00 per day, or a plus or minus of $25.00 per foot of drifting.
Expect that after "kinks" are ironed out that it will be possible to put on two shifts to speed up the operations.

FILE COPY
SURNAME:

310

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

A. E. C.

Gowen

Mr. Axel Wahlberg
Golden Sunset Mining Company
Mammoth, Utah

Re: DMA Docket No. 1615X

Dear Mr. Wahlberg:

This is to acknowledge your letter of July 30, 1951 submitting more information.

We wish to inform you that this new additional material will be incorporated with your application and will further help in processing it.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Copy to: Administrator's Reading File
Reports and Records Branch
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

RVWaugh:rw
8-7-51

MI 500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE AUG - 3 1951

REFERRED TO:

1. 310
2.
3.
4.

AUG 6 1951

FOR:

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

X

REMARKS: .....

Check (X) before the items needing attention.

ROBERT E. ADAMS

Initials of sender.

GPO 16—63815-1

310

Golden Sunset Mining Co.

Mammoth, Utah,

July 30, 1951.

U. S. Dept of Interior Re: Docket No. DMA 1615X

Defense Minerals Administration,

Washington, 25, D. C.

Mr. J. B. Gowan, Chief, Copper Branch.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 6 1951
LANDON F. STROBEL
Executive Secretary

Dear Mr. Gowan:

We received your letter asking for more details regarding the installation of equipment, cost of repairing drift, and total amount of drifting to be done.

It is rather difficult to arrive at a definite figure so the estimate in this report can only be done in plus or minus figures.

In our original request, Form MF 103, we outlined the approximate cost of necessary materials. The installations and repairs are as follows:

Storeroom, compressor house, electric switchhouse ±	$4000.00
Electric transformers and switches (Cost and installation)	1500.00
Installation of power line	1000.00
Base and installation of compressor (360 cubic feet)	250.00
Retimbering and cleaning up the debris in drift 15 sets @ $25.00 per set	375.00
Installation of 2" pipe, outside to face of drift	125.00
Installation of track 12 lb. rail	350.00
Drifting ± 400 feet @ 30.00 per foot	12,000.00

The objective of this drift is to strike what we think a favorable contact which may be 300 to 400 feet away. On contact of this fault it may be necessary to either sink or raise depending upon such conditions as are found.

So far we have not made a definite decision as to disposal of stock, but are absolutely sure if there is the least encouragement from your department that this is a feasible project, the stockholders will immediately take the necessary steps for sale of capital stock and assessments to meet their part of this job. This is a strategic location and it is due to the lack of interest in smaller properties there has been no work done since 1941.

We appreciate your response to this project, also the enclosures sent to us, as they are of value to read the answers to the questions which are always coming up in this sort of a venture.

We hope the information enclosed is sufficient to make a more clear picture of this project to you.

Thanking you very much for your attention in this matter we remain

Very truly yours,

Axel Swahlberg.

President and General Manager
Golden Sunset Mining Co.
Mammoth, Utah.

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

310

a.e.c.

Mr. Amel Wahlberg
Golden Sunset Mining Company
Mammoth, Utah

Re: DMA Docket No. 1615X

Dear Mr. Wahlberg:

This is to acknowledge your letter of July 30, 1951 submitting more information.

We wish to inform you that this new additional material will be incorporated with your application and will further help in processing it.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Copy to: Administrator's Reading File
Reports and Records Branch
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

RVWaugh:rw
8-7-51

Golden Sunset Mining Co.

Mammoth, Utah

July 30, 1951.

U. S. Dept of Interior Re: Docket No. DMA 1615X

Defense Minerals Administration
Washington 25, D. C.

Mr. J. B. Gowan, Chief, Copper Branch

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Thanking you very much for your attention in this matter we remain

Very truly yours,

(sgd) Axel Wahlberg
President and General Manager

Golden Sunset Mining Co.

Mammoth, Utah

C O P Y

G. E. C.

Mr. Axel Wahlberg
Golden Pumpkin Mining Company
Kennewick, Wash

Re: DMA Docket No. 1613X

Dear Mr. Wahlberg:

This is to acknowledge your letter of July 30, 1951 submitting more information.

We wish to inform you that this new additional material will be incorporated with your application and will further help in processing it.

Very truly yours,

J. B. Gower

J. B. Gower, Chief
Copper Branch

Copy to: Administrator's Reading File
Reports and Records Branch
Executive Officer, DMA Field Team IV
Copper Branch
Files - DMA Docket

EWaugh:rw
8-7-51

July 24, 1951

Re: Docket No. DMA-1615X

Q.E.C.

Mr. Axel Wahlberg, President
Golden Sunset Mining Company
Juab County
Mammoth, Utah

Dear Mr. Wahlberg:

In your letter of May 29, 1951 to Mr. J. M. Hunt, Jr., 224 New Customhouse Bldg., Denver 2, Colorado which was attached to your application for government aid for your company's exploration project, you ask the question and we quote: "If property is worthy of the loan from the Government must the company have the cash ready or could operators start on government money until sale of stock is completed?" In answer to this question it will be necessary for you to have sufficient money to meet your operating costs for the first month and at the end of each month the government will pay its share. The answer to your question is best stated in the press release of May 14, 1951 and for your information we are enclosing a copy of this release, also a copy of the April 11, 1951 press release. We also believe that prior to negotiating a contract with the government you should be assured of sufficient funds to carry out the project.

To process your application we would need more detailed information on your costs such as the cost of hoist lifting equipment, cost of preparing drift and the total amount of drifting to be done with the cost.

Upon the receipt of this information we will proceed with the processing of your application.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

Enclosures:

JWAlt:ez

Copy to: Executive Officer, DMA Field Team Region IV, w.c.i.
Reports & Records Branch, w.c.i.
Copper Branch, w.s.i.
Files

Eureka, Utah,
May 29, 1951

Mr. J. H. East, Jr.,
224 New Customhouse, Building.,
Denver 2, Colo. (Bureau of Mines)

Dear Sir:

Enclosed is a request from the Golden Sunset Mining Co., Utah, (This property formerly called the Pasadena) asking financial assistance to get this property into operation.

On this particular area we refer you to professional paper 107 by Waldemar Lindgren, 1919.

Since his report rich ore bodies, in the quartzite, have been discovered in this district and showings made in this property indicate rich potential ore bodies.

The stockholders of this company are willing to put up from 50 to 75 thousand dollars as their part (50%) which will come from sales of treasury stock and assessments of outstanding stock.

This property is open and accessible and have made formal application at the Bureau in Salt Lake City for examination.

All questions have been answered to the best of our knowledge, also cost estimates and are enclosing such maps itc. that are availabel.

If property is worthy of the loan from the Government must the company have the cash ready or could operations start on Goverment money until sale of stock is completeed?

We are very anxious to get into operation and will appreciate anything you may be able to do to expedite the project.

Yours very truly,

s/ Axel Wahlberg

Copy

G.E.C.

July 18, 1951

Re: Docket No. DMA 1615X

Mr. A. Waklbert
Eureka, Utah

Dear Mr. Waklbert:

This is to acknowledge your letter of July 6, 1951 with its enclosure of additional information on your property.

We wish to thank you for submitting this new material which will help in the processing of your application. This information will be incorporated with your application which we have on file.

Very truly yours,

J. B. Gowen

J. B. Gowen, Chief
Copper Branch

RVKaugh:jp

Copy to: Region IV, J. H. East, Jr., DMA Field Team
Copper Branch, w.c.i.
Reports and Records Branch, w.c.i.
Files

Eureka, Utah,
July 6, 1951.

Mr. J. B. Gowen, Chief, Copper Branch,
U. S. Department of the Interior,
Defense Minerals Administration,
Washington 25, D. C.

Dear Sir:

The enclosed Engineers Report on the Golden Sunset Mining Company was not available at the time the original application for a loan was made by this company.

I trust this report will give you a clearer picture of the property we are trying to develope.

This report will be a part of the papers in connection with the original application mailed to you about May 30, 1951.

Respectfully yours,

Fred Johnson
Eureka, Utah.
/s A Waklberg
President & Gen. Mgr.

Project # D.M.A.-1615X

COPY

June 18, 1951

Mr. Axel Wahlberg
President
Golden Sunset Mining Co.
Juab County
Mammoth, Utah

Subject: DMA-1615X
Re: Exploration Loan
Golden Sunset Mining
Company

My dear Mr. Wahlberg:

Receipt is acknowledged of your application and attachments of May 31, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1615X and was referred to Mr. J. B. Gowen, Chief, Copper Branch on June 11, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1615X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:ja
cc: >Strobel-2
Files
Gowen
Lyon

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-1615X

Date received 6/5/51

Participation

Golden Sunset Mining Co.,
Mammoth, Utah,
Juab County

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application May 31, 1951

Estimated cost $100,000.00

Mineral or metal Metal

Percentage of Government participation 50%

Location of mine T.S. 10S - R. 3W.
Juab County, Between Mammoth and Eureka,

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

Golden Sunset Mining Co.,
(Name of company)

By Axel Wahlberg
(Signature of authorized official)

May 31, 1951.
(Date)

President & Gen Mangr.
(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

I.

GOLDEN SUNSET MINING CO.

MAMMOTH, UTAH.

Form MF - 103

1. Coporation

2. _____

3. Axel Wahlberg, President and General Manager, Mammoth, Utah.
Thomas Chatwin, Secretary-Treasurer, and Director, Santaquin, Utah.

Andrew Steedman, Vice-President, Provo, Utah.
John Perquist, Director, Salt Lake City, Utah
Ivan Perquist, Director, Salt Lake City, Utah.
Gerald Cowan, Director, Salt Lake City, Utah.
Pollis Chatwin, Director, Santaquin, Utah.

4. Axel Wahlberg, 48 years in mining, Superintendent of Mammoth mine for a number of years. Mining and leasing experience in most of the Western States.

Thomas Chatwin, Assayer and Chemist.

Fred Johnson, Superintendent, 23 years as shift boss, safety and ventilation engineer, and General Foreman at Tintic Standard Mining Co., Dividend, Utah.

5. Owners of property.

6. No assets, no liabilities, no liens. 140 acres of patented ground, 80 acres of unpatented ground.

7. _____

8. No assets and no liabilities.

9. Having copper and lead ore, expect to pay 50% of the $100,000.00 estimated cost.

10A. Refer to claim map enclosed.

10B. On Della Claim drifting northerly on exposed fissure, at end of tunnel from claim of West side contact.

11. Present name of the property, Golden Sunset Mining Company, formerly called the Pasadena.

12. Location, appoximately 1 mile from Eureka and approximately 1 mile from Mammoth.
Railroad approximately 1000 feet from portal of tunnel.
Paved highway No. 6, 1000 feet from portal of tunnel.
Points of shipment at either Mammoth 1/4 of a mile, Silver City 1 mile, or Eureka 2 miles.

13A. Sufficient water at all times, though necessary to install a pipe line connecting with main supply line to Mammoth.

GOLDEN SUNSET MINING CO.

MAMOTH, UTAH.

13B. Amount of power to be determined, at least 100 H. P. Source of power is, from Utah Power& Light Co. Line to connect to is 1250 from portal of tunnel.

14. None. Facilities used in previous work has been stolen or destroyed.

15. To be shipped by truck or truck to railroad and to mill or smelter offering the best contract or returns on type of ore found.

16. Exploration started in 1905 from surface indications showing Cu. Pb. Au. and Ag.
From surface indications the tunnel has been driven 1357 feet into hillside. In making this progress several veins or fissures were encountered showing values in Cu. Pb. Au. and Ag. Face of tunnel driven through 50 foot fissure showing assays of 4% Cu. 20 oz. Ag. and some lead.
Plan of development is to drive northerly on this fissure 300 to 400 feet to reach a cross fault which we have geological data indicating there should be a body of ore.
No commercial ore has been shipped.

Reason for suspension of operations - lack of funds necessary for labor, equipment, etc. Last work done in 1941.

16B. To the South of this property, 2000 feet, is the Swansea mine which has paid dividends of $750,000.00.
The Centennial Eureka, 1/4 mile to the North, 25 to 50 Million dollars.
Mammoth mine 1/2 mile to the East $7,000.000.00.

16C. In 1919, Waldemar Lindgren made an extensive geological survey of this area and his report turned into the U. S. Government.

17. No production to date.

18. Has not operated since 1941.

18A. A fissure deposit in quartzite. Available maps enclosed.

18B. To be determined.

19. Conditions of property are answered in the foregoing or above questions.

20. Cu. Pb. Au. and Ag. Fissure deposits

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21. Drifting northerly on fissure deposit with possible cross cuts on this fissure.

Time required, less thantwo years time alloted by Government contract.

22. Maps enclosed show location of this property to adjacent producers.

Operators knowledge and experience in mining ore in quartzite in East Tintic District.

23. After completion of installation of track, transformers, pipe, timber, buildings and other necessary work to start drifting, estimate 4 men can do drifting work and other details essential @ $12.05 per day (standard pay) or $50. per day. While drift is being repaired and put in operating condition, expect to use 4 to 6 men outside installing compressor, erecting necessary buildings, and other outside work to get operations in face of drift to going. These men will be paid approximately same wages. If materials can be obtained, outside work should not take more than 30 to 60 days.

6 men @ $12.05 per day		$72.30
4 men @ $12.05 " "		50.00
		$122.30

23B. Supervision:

Pres. and Gen. Manager	$250.00 1/2 time
Sec'y-Treas.	250.00
Superintendent	~~$300.00~~ 400 00

23C. There are no existing facilities or buildings.

23D. Building of Compressor room, store room and office, estimated at cost of $3,500.00.

23E.

2 Leyner Machines - second hand, @ $300.00 each	$ 600.00
1 Jack Hammer - " "	75.00
1 Stoper Machine " "	100.00
3600 feet of 12# rail @ $110.00 per ton, fish plates bolts, spikes, etc. estimated at	1300.00
1800 feet 2" pipe @35¢ per foot	630.00
Mucking machine - Second hand	1500.00
150 feet of 1-1/8" Drill steel @30¢ per foot, and 300 bits at 20¢ each	105.00
150 feet Stoper steel @ 30¢ per foot	45.00
150 feet 7/8" Jack hammer steel @30¢ per foot	45.00
8 Mine cars @ $125.00 each	1000.00
Transformers	1500.00
Installation of power line	1000.00
Switches and installation	500.00

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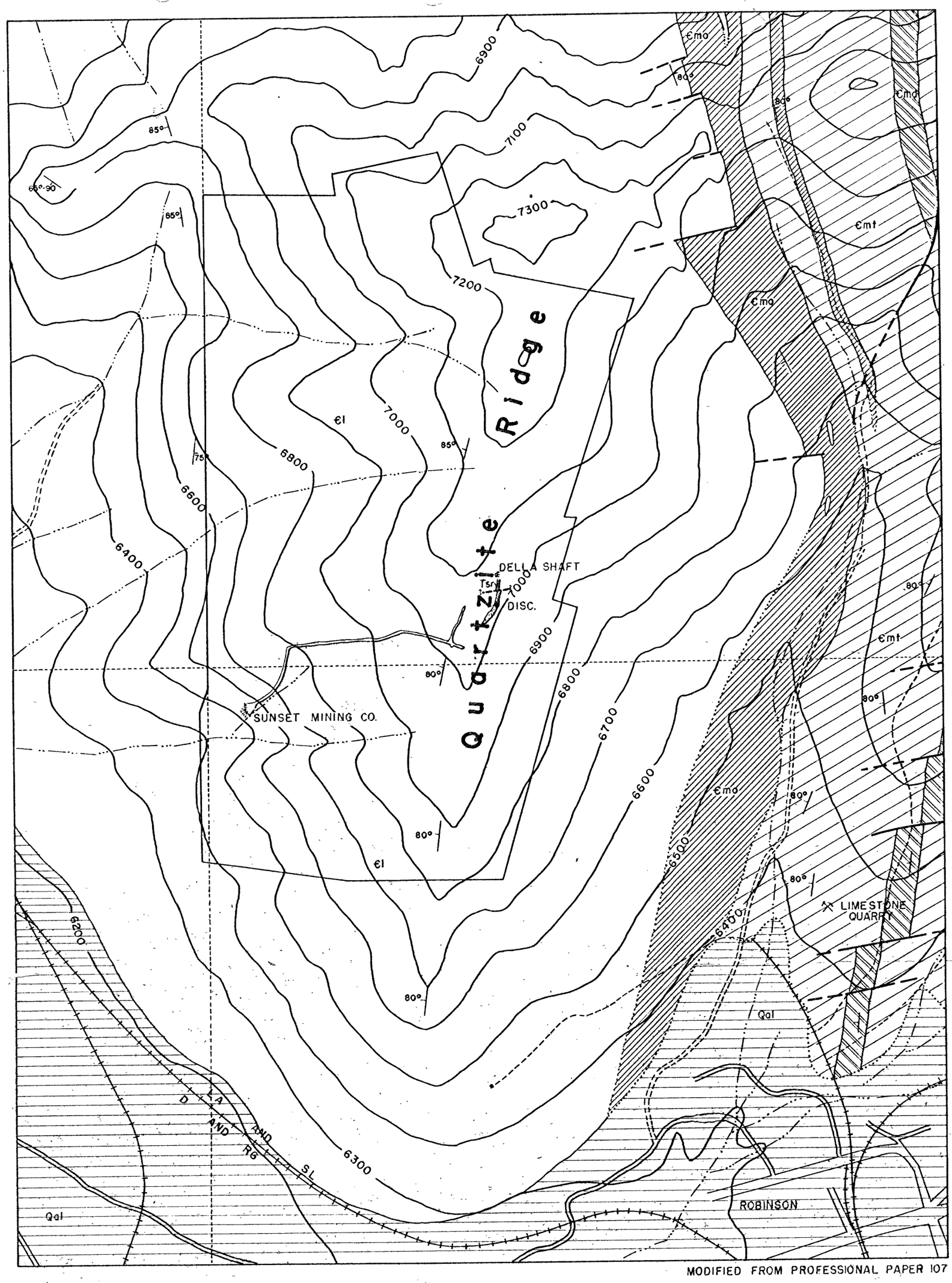
23B.	Compressor	$5000.00
	Air receiver	150.00
	Water tank for compressor and pump	300.00
	150 feet 1" Air Hose @ $1.00 per foot	150.00
	150 feet 3/4" Air Hose	150.00
	Cross Bars - each	60.00
	2 Pressure tanks @ $30.00	60.00
	Small tools	500.00
	Truck	4000.00
	1000 Track ties @ 20¢ each	200.00
	Retimbering 15 tunnel sets at $25.00 per set	375.00
	300 feet of road to be shot and graded) 1/4 of a mile to be graded)	1000.00

24. After project is approved, if necessary materials are available, necessary work to get operation in order will take 1 to 2 months.
Progress expected to be made is 4½ to 5 feet per shift.
Money expected to spend is on labor, power, explosives, supervision, transportation of materials, repairs for such breakdowns as may occur, equaling a plus or minus of $125.00 per day, or a plus or minus of $25.00 per foot of drifting.
Expect that after "kinks" are ironed out that it will be possible to put on two shifts to speed up the operations.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 5 - 1951
LANDON F. STROBEL
Executive Secretary



MODIFIED FROM PROFESSIONAL PAPER 107

EXPLANATION

Qal — Alluvium

€md — Dagmar limestone

€mt — Teutonic limestone

€mo — Ophir formation

€l — Tintic quartzite

Tsr — Swansea rhyolite

20 — Contact (Dashed where approximately located)

Concealed contact

55 — Fault (Dashed where approximately located)

30 — Strike and dip of beds

Portal of tunnel or adit

Dump

FIG. 2 GEOLOGIC MAP OF QUARTZITE RIDGE, TINTIC MINING DISTRICT UTAH SHOWING SUNSET MINING CO. PROPERTY AND WORKINGS

0 400 800 FEET
Scale