DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. DMEA-2835

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This document has been recorded as

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

Routing Slip

CYS TO USBM, USGS. 1 cy retained in Reg. III

To:	Code 400 Rm 3538	Date	1/6/53
To:	Open Conn	Date	1-14-53
To:	Open Conn	Date	4-15-53
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Administrator, DMEA 4-10-53

400

Iron and Ferro-Alloys Division, DMEA

Denial of application for exploration assistance in the amount of $51,547.50.
Docket No. DMEA 2835 - Tungsten, Lead, Zinc, and Copper
Claremont Mining Company
Sagamore Mine
San Bernardino County, California

The denial of the subject application by this Division is based on the following information:

(1) An examination by the Field Team was made in 1951 of this property under an application for a $80,000.00 production loan, Docket No. DMA-1102. Though the production loan was denied, the Field Team suggested that an exploration program would receive consideration.

(2) Tungsten, lead, zinc, silver, and copper mineralization at the Sagamore mine is confined to a series of strong quartz veins in schistose quartzite. The ore is low-grade with the tungsten erratically distributed.

(3) The applicant proposed a program of drifting and raising to explore known ore bodies at greater depth. The applicant had already unwatered the 144-foot shaft and started drifting to expose the vein at this level as suggested by the Field Team during the 1951 examination.

(4) The results of the more recent Field Team examination indicate the mineralization is too low-grade to warrant an exploration contract under the Defense Minerals Program. This does not mean that the property is entirely without merit; with high metal prices and low operating costs, this mine might possibly be profitably operated.

(5) The Field Team recommends denial.

(6) The Commodity Division of the U. S. Geological Survey recommends denial.

(7) The Commodity Division of the U. S. Bureau of Mines concurs with the denial of the subject application.

W. S. Martin

W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

FARutledge/foc
4-10-53
Copy to: Docket
Adm. Reading File
Code 400
Operating Committee

400

APR 1 6 1953

Mr. Harry A. Hollingsworth
Claremont Mining Company
Box 9
Evanpah, California

Re: Docket No. 203 - Tungsten, Lead, Zinc, and Copper
Claremont Mining Company
Sugarloaf Mine
San Bernardino County, California

Dear Mr. Hollingsworth:

Your application for aid for an exploration project and other data available to us in Washington concerning the Sugarloaf Mine have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, have definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the national defense program.

Careful study of all our information indicates to us that the probability of disclosing minable ore reserves of the referenced metals by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FAHutledge/fec
4-10-53
Copy to: Docket
Adm. Pending File
Code 400
Field Team, Reg. 3
Operating Committee
R. W. Lerron, DSCD
R. W. Doenan, DCBM

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 4/3/53

REFERRED TO:

1. ~~Operating Committee~~
2. ~~Miss Lanahan, Rm. 4539~~
3. Code 400: Rm. 3538
4.

FOR:

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

REMARKS: Field Exam. Report. For Agenda 4/5/53. DMA-1102 denied for production loan on Sagamore Mine. HB

NOTE TO DIVISION: Only 1 copy of material under ltr. of applicant received. Mines

Check (X) before the items needing attention. BACK

George E. Schilling

(HB) *Initials of sender.*

GPO 16—63815-1

Looks as if we write and say it's denied. Let's hear from Commodity men first.

One herewith WSM

4/7/53

Please see whether we have to do the photostat job Mrs. Berry outlines.

and Survey did not receive copies of this. If necessary they should have, could be photostated for them. Hazel

400

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 31 1953

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

March 27, 1953

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2835 (Tungsten-Lead-Zinc-Copper)
Claremont Mining Company
Sagamore Mine, San Bernardino County, California

Reference is made to your letter dated January 15, 1953, suggesting the probable desirability of making a field examination of the subject property.

Attached are four copies of a report entitled "DMEA-2835, Sagamore Mine, San Bernardino County, California, (Lead-Zinc-Silver)," by George H. Holmes, Jr., Mining Engineer, U. S. Bureau of Mines, and W. P. Irwin and Wayne Hall, Geologists, U. S. Geological Survey, dated March 17, 1953.

Attached also are four copies of a report by our Metallurgical Division on a bulk sample from the mine.

The Sagamore property was previously examined as a result of the owner requesting an $80,000 production loan, and it was found to have insufficient reserves to justify the loan. It was suggested at that time that the applicant unwater his 144-foot shaft and do a little drifting to expose the ore at this level, and that he then consider applying for exploration funds through DMEA. These suggestions were followed, and the reexamination was made to evaluate the merits of the applicant's exploration proposal.

The examining engineer and geologists conclude that because of the comparatively low content of lead-zinc and tungsten in the ore the application for exploration funds should be denied.

Although it is recommended that the loan be denied, we are enclosing herewith letter dated February 10, 1953, from Mr. Harry B.

Reviewed by
OPERATING COMMITTEE
4-6-53

Hollingsworth, of the Clarement Mining Company, to Mr. A. G. Johnson, together with four copies of supplement to his original application. Mr. Hollingsworth has also sent us a copy of Assignment of Lease Interest and Contract for purchase of Mining Property, executed by Charles L. Workman, which he requested us to add to his application file, as well as executed Owner's Consent to Lien forms, of which only four copies were enclosed.

H. C. MILLER

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

Attachments

Copy to: M. H. Bailey, USGS
A. G. Johnson, Reno

[illegible]

[illegible]

[illegible]

[illegible]

Supplementary Report

[illegible]-2035, Amore Mine

San Bernardino County, Calif.

(lead-zinc-silver)

George W. Holmes, Jr., Mining Engineer
U. S. Bureau of Mines

[illegible] Irwin [illegible] Wayne Hall, Geologists
U. S. Geological Survey

March 17, 1953

Copy [illegible] by

4-6-53

[illegible] REPORT

Docket No.: [illegible]-2[illegible]

Name and address of applicant: The Lamont Mining Company
[illegible] or 9
Ivanpah, California

Name and location of property: Sunnore Mine
San Bernardino Co., Calif.

The Claremont [illegible] Company's Sunnore Mine, San Bernardino County, California, was visited on Feb. 4, 1953 by George H. Galasso, Jr. of the Bureau of Mines and [illegible]. Irwin and Wayne Hall of the U. S. Geological Survey, for the purpose of examining and sampling new workings on the 144-foot level [illegible] for metallurgical testing. The field test was [illegible] by Mr. [illegible] Ellingsworth, mine superintendent.

The mine has been [illegible] in small industrial [illegible] by [illegible] Irwin and [illegible] of the Geological Survey from [illegible] to 11, 1951 (see report dated [illegible]). The earlier examination was [illegible] the results of [illegible] probing [illegible] for [illegible]. This report was [illegible] for two reasons: (1) [illegible] contained insufficient [illegible] and (2) the ore is complex, and the [illegible] of the ore [illegible] not known. At that time the field test suggested that an exploration program might be feasible, and [illegible] should be made coincident with exploration.

Since the [illegible] in 1951, a drift in the "lower level" (see fig. 1, report dated [illegible]) has been [illegible] reconditioned to the bottom of the 144-foot level (which is [illegible] below the "lower level" of the report of [illegible], 1951). A short drift was driven to the northeast along the vein on the 144-foot level, and a [illegible] raised drift to the west [illegible] was opened by a crosscut driven westerly from the shaft. No work has been done in other parts of the mine since the former examination.

The applicant's proposal was discussed in detail with Mr. Ellingsworth and the original plan to drift both northeast and southwest on the vein on the 144-foot level was modified to consist of drifting only to the west along the vein on the 144-foot level. This work was to be contingent on results of the field test examination of new workings on the 144-foot level.

The vein at the face of the northeast drift is 4.2 feet in width, consisting of a 3.5 foot band containing low-grade lead-zinc mineralization, and a foot-wall stringer, 0.7 feet wide, containing lead, zinc, scheelite and huebnerite. Assay data from samples taken are:

Sample No.	Location	Width Feet	Percent WO_3	Pb	Zn	Cu	Ounces Au	Ag
162	Face, east drift, footwall stringer	0.7	1.66	2.9	2.2	1.00	0.005	3.00
163	Face, east drift	3.5	<0.01	0.7	1.1	0.33	Tr	1.60
164	West face of east drift	3.7	<0.01	0.2	1.8	0.47	Tr	2.00

A bulk sample taken from the 30-ton stockpile of ore mined from the northeast drift had the following analyses:

Percent WO_3	Pb	Zn	Cu	Ounces Au	Ag
0.05	0.9	1.2	0.38	-	1.40

Geology

The geology in the shaft is concealed by lagging. The bottom of the shaft is in the rhyolite porphyry dike exposed on the "lower level", but the exposure is poor and the exact attitude of the dike could not be determined. The remainder of the workings on the 144-foot level are in schistose quartzite.

The quartz vein in schistose quartzite exposed at the face of the east drift of the 144-foot level appears to be the same as that opened by the upper levels. It strikes northeast and is nearly vertical. The average width over its exposed length of 15 feet is about 3 feet. The mineralogy is similar to that on the upper levels. Pyrite, chalcopyrite, galena, cerrusite, sphalerite, huebnerite and scheelite are the principal metal-bearing minerals. No supergenic evidence of oxidation of the minerals was seen.

Conclusions

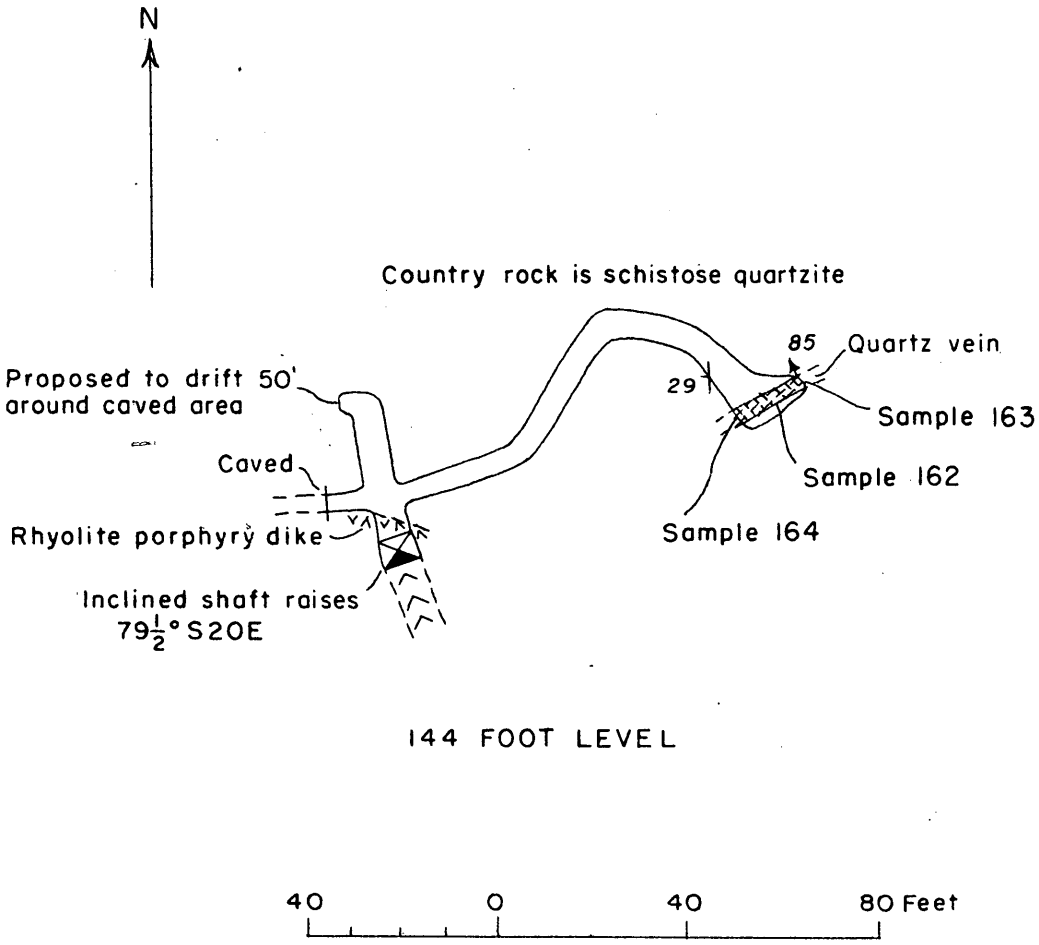
The combined lead-zinc and silver values are too low-grade to permit an economical operation under present metal prices. Tungsten occurrences are erratic and low grade; the average tungsten content of the 30 tons mined on the 144-foot level is 0.05 percent WO_3. High-grade stringers and bands of huebnerite and scheelite occur, but they are not sufficient to be mined separately or to upgrade the lead-zinc ore. In addition, the ore is complex, and it is doubtful that a milling procedure could be worked out which would assure good recovery. Tests on this ore are being made by the Hydrometallurgical and Ore Dressing Branch.

Recommendations

In view of the comparatively low-grade lead-zinc-silver mineralization and the low average tungsten content of the ore and its erratic distribution, it is recommended that the application be denied.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 2835
(Lead, zinc, tungsten)



Mapped by W. E. Hall and W. P. Irwin, February 1953

SAGAMORE MINE, SAN BERNARDINO COUNTY, CALIFORNIA

Figure 1

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Rare and Precious Metals Experiment Station
Hydrometallurgical & Ore-Dressing Branch
Box 5, University Station
Metallurgical Division — Reno, Nevada

Region III — March 11, 1953

RMA - 2835 Claremont Mining Co., Sagamore Mine,
San Bernardino County, California
(Holmes)

Ho-O-2.91

Lead, Zinc, Copper, Tungsten Ore

The gangue of this ore was almost entirely quartz, with clusters and disseminated sulfide mineral grains, including galena, sphalerite, and pyrite, with some chalcopyrite, and covellite coatings on pyrite. Scheelite was present, and a small amount of calcite. The sulfides were intergrown, pyrite with inclusions of the others. While some of the galena and sphalerite were fairly coarse-grained, most of the grains of these minerals were very fine. The scheelite occurred in small clusters, usually associated with the sulfides, and in part, as very fine grains in clusters of pyrite. Silver was present with the galena.

Most of the sulfide clusters were liberated from the quartz gangue by crushing to minus 10-mesh, as was most of the scheelite. The ore was low-grade, analyses showing:

Pb,	percent	1.2	Ag, oz/Ton	1.25
Zn,	do	1.0	Au, oz/Ton	Trace
Cu,	do	0.5		
WO_3	do	0.05		

Because of the favorable texture of the ore, in spite of its low grade, a gravity concentration test was made. The ore was crushed to minus 10-mesh, hydraulically classified into three sand portions and slimes, and each concentrated on the laboratory Wilfley table. The concentrates were combined for further treatment, and the tails discarded, a reduction of 65 percent of the original weight.

Most of the sulfides, and nearly all of the scheelite were recovered in the table concentrates. The losses in the table tails

Prepared by
DEAN CLARK [illegible]

(over)

were chiefly in zinc and copper. Results were:

Product	Weight, percent	Analyses-Percent Pb	Zn	Cu	WO_3	Ag Oz/T	Distribution-Percent Pb	Zn	Cu	WO_3	Ag
Table Cons'tr.	14.9	7.3	8.9	1.7	0.34	7.62	92.8	57.7	74.8	99.8	84.2
Table tails	85.1	0.1	0.5	0.1	*	0.25	7.2	42.3	25.2	-	15.8
Composite	100.0	1.2	1.0	0.3	0.06	1.3	100.0	100.0	100.0	99.8	100.0

* Less than 0.01 percent WO_3

Recoveries were: Lead 92.7 percent, zinc 57.7 percent, copper 74.8 percent, tungsten 99.8 percent, and silver 84.2 percent, in 14.9 percent of the original weight.

Sulfide Flotation

This enriched concentrate product was stage ground to minus 100-mesh and bulk sulfide flotation concentrates made, to drop as much of the scheelite as possible into the bulk flotation tailings. The reagents used, were in pounds per ton of flotation feed, potassium ethyl xanthate, I-3, 0.08; pine oil, 0.05; and aerofloat 25, 0.05.

Microscopic examination of the bulk flotation concentrates showed much of the sulfides still locked, particularly in the pyrite. The bulk concentrates were therefore reground to minus 200-mesh and considerable further liberation accomplished.

The reground bulk flotation concentrates were then refloated to produce selective recovery of lead and zinc. For lead flotation, the reagents used were in pounds per ton of flotation feed, sodium carbonate 1.0, sodium cyanide 5.0, zinc sulfate 1.0, and ethyl xanthate 0.035. For zinc flotation, the reagents were lime 1.0, copper sulfate 3.0, ethyl xanthate 0.10, and Dowfroth, 0.05.

The lead concentrates contained 61 percent Pb, 8.9 percent Zn, 2.5 percent Cu and 52 oz/Ton Ag, representing recoveries of 74.5 percent of the lead, and 66 percent of the silver, with 15 percent of the copper, in 1.7 percent of the original weight of crude ore.

The zinc concentrates contained 25 percent Zn, 10 percent Pb, 12 percent Cu, and 15 oz/Ton Ag, representing recoveries of 50 percent of the zinc, 42 percent of the copper, and 11 percent of the silver, in 1.2 percent of the weight of the original crude ore.

The tailings from this cleaner operation were mostly pyrite, with still-locked inclusions of galena, sphalerite, chalcopyrite, and scheelite.

Panning and microscopic examination showed no free scheelite, although 88 percent of the original total WO_3 remained in this product.

Detailed data of the sulfide flotation are shown in the following tabulation.

Product	Weight, percent	Analyses-Percent Pb	Zn	Cu	WO_3	Oz/T Ag	Distribution - Percent Pb	Zn	Cu	WO_3	Ag
Pb Conc'ts.	1.7	51.4	3.9	2.5	*	52.35	74.5	16.0	12.6	-	68.0
Zn Conc'ts.	1.2	10.5	25.2	11.9	0.01	12.80	10.7	30.1	42.3	0.2	11.4
Pyrite tails	2.6	2.5	5.2	2.0	0.42	2.30	6.0	8.9	16.4	22.0	5.8
Bulk conc'ts.	5.7	18.8	9.5	4.2	0.28	19.70	91.2	54.0	71.3	22.2	85.2
Bulk tails (Scheelite feed)	9.2	0.2	0.4	0.1	0.45	0.15	1.8	5.7	3.5	77.6	1.0
Composite (Table conc'ts.)	14.9	7.5	5.9	1.7	0.36	7.62	92.8	57.7	74.8	99.8	84.3

* Less than 0.01 percent WO_3

Scheelite Flotation

The tailings from the primary bulk flotation represented 9.2 percent of the original weight of ore, and contained 77.6 percent of the original total WO_3, with a grade of 0.45 percent WO_3.

A standard flotation test made on this product indicated 90 percent gross recovery of the scheelite in the flotation feed, or 71.7 percent of the scheelite in the original ore. The amount of material available for this test was insufficient to allow complete flotation testing on production of high-grade concentrates.

Conclusions

The results reported herewith indicate that the ore tested can be concentrated and much of the lead and silver recovered. Recovery of zinc was low and the zinc concentrates were low-grade, but perhaps better results could be obtained in continuous operation including cleaning. Tungsten extraction was good, but more work would be necessary to demonstrate production of saleable concentrates.

Of course, the low grade of the original ore might prevent economical treatment by methods similar to those used in the tests.

Claremont Mining Company
Box 9
Ivanpah, California.

6 (B) Drift on vein west from bottom of No. 1 Shaft 500 feet, 6 days a week, advance 3½ feet per day. Hoist Man and Trammer $14.00 per 8 hr shift, Machine Man $15.00, 2 Muckers and Trammers $11.00, 1 Supervisor $17.00 per shift. Labor Per Foot — Per Ft. $ 21.04

Insurance and Social Security 12%			2.53
Powder fuse and Detonators			2.00
Timber 250 feet @ 5.00 per ft.			2.50
Compressor supplies			2.00
Steel and Bits			2.00
Repairs-drill etc			1.00
Lubricants			..20
Fuel			.50
Hose			.20
Rental operators equipment			.74
Assaying			.45
Equipment rental			2.20
Accounting and Engineering			.50
			$ 16.82
Equipment to be purchased:			
Rails, ties, fish plates, spikes	500.00		
250 feet 2" pipe	125.00		
1 Mine Car	100.00		
1 1½ H.P. Electric Motor	125.00		
650 feet vent tube	250.00		
	$1100.00	/	2.20
		Labor	$ 21.04
		Supplies	16.82
		Equipment	2.20
		Total	$ 40.06
Operating Equipment furnished by Operator:			
2- Mine cars @ 100.00	200.00		
2- Thor Sinker Drills	600.00		
4- Sets of drill steel	50.00		
Small tools	150.00		
1- 1947 1½ Ton Ford Truck	1000.00		
1- Generator (Camp Lights)	200.00		
500 feet 2" Pipe	250.00		
750 feet 1" Pipe	200.00		
250 feet 1¼" Pipe	75.00		
Acetylene Welding Set, Blacksmith tools	75.00		
1- Kato 15 KV.A Generator	1000.00		
1- 1½ H.P. Electric Pump	200.00		
	$4000.00	1/60th	66.66
Equipment to be rented:			
105 Cu. Ft. Compressor	140.00		
Gasoline Hoist	50.00		190.00

Claremont Mining Company
Box 9
Ivanpah, California.

6 (B) Drift on vein west from bottom of No. 1 Shaft — Per Ft.
500 feet, 6 days a week, advance 3½ feet per day.
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		Labor	$ 21.04
		Supplies	16.82
		Equipment	2.20
		Total	$ 40.06
Operating Equipment furnished by Operator:			
2- Mine cars @ 100.00	200.00		
2- Thor Sinker Drills	600.00		
4- Sets of drill steel	50.00		
Small tools	150.00		
1- 1947 1½ Ton Ford Truck	1000.00		
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Gasoline Hoist	50.00		190.00

Mr Johnson The Blaremont Mining Co.
is negotiating with the Brown Heirs
to buy the Sagamore outright. If the
Heirs do not sell to us for cash
I am sure that they will sign
the Owners Consent which will
be forwarded to you.

Harry Hollingsworth

CLAREMONT MINING COMPANY
Box 9
Ivanpah, California.

February 10, 1953.

Mr. A. C. Johnson,
Mining Division Region 3,
U. S. Bureau of Mines,
P. O. Box 1551
Reno, Nevada.

Dear Mr. Johnson:

Since Mr. Holmes and Mr Irwin visited the Sagamore Mine, we have decided to file a supplement to our M.F. 103 application that we filed on January 6th, 1953. I am enclosing it herewith.

The wage scale which I have set up is the wage scale in effect at the Mine at this time and I think I can maintain it, during the life of the project.

You will also notice that I have substituted a 105 Compressor which we are using and I believe will do the work if we instal an underground storage tank. The greatest distance the compressor would be from the working face would be 650 feet.

Thank you for your promptness in making the examination of our property. We will appreciate any thing you can do in securing an early answer to our application.

Very truly yours,

CLAREMONT MINING COMPANY.

Harry B. Hollingsworth

Harry B. Hollingsworth, Secry.

HBH/ec.
Encl.

Claremont Mining Company
Box 9
Ivanpah, California.

6 (B) Drift on vein west from bottom of No. 1 Shaft — Per Ft.

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			$ 16.82
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		Total	$ 40.06
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	$4000.00	1/60th	66.66
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IN REPLY REFER TO:

G-MD-DML

402

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

April 8, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report
Claremont Mining Company
Sagamore mine
San Bernardino County
California

DMEA-2835
Tungsten, etc.

The Sagamore mine was examined February 4, 1953, by George H. Holmes, Jr. (Bureau of Mines), and W. P. Irwin and Wayne Hall (Geological Survey). Their report dated March 17, recommends denial of the application because the metal content in the quartz vein is too low for ore.

I concur in the conclusion that the application should be denied.

D. M. Lemmon

Copy retained 400

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

400

Memorandum

January 21,1953

To: Mr. George C. Selfridge

From: Robert W. Geehan

Subject: DMEA 2825, Tungsten
Mid-State Development Company
New Klondike Mine
Millard County, Utah

The Bureau of Mines examined this deposit in 1941. A report by Paul Allsman describes the deposit and lists 32 samples. Only one ran as high as 0.17 percent WO_3 and nearly all were listed as less than 0.01 percent WO_3. However, Allsman seems to have been skeptical of the analysis of his samples, and his report includes a list of analysis, provided by the Tintic Standard staff, that shows many samples in the 0.3 to 0.5 percent WO_3 range and some high-grade.

The Field Team will no doubt find this report in the Regional files; if not it can be obtained from Mt.Weather.

Information now available suggests a rather spotty type of mineralization, with a fair chance of developing a large tonnage of ore. The Field Team should be asked for comments on the use of small diameter diamond drill holes to sample this deposit.

Robert W. Geehan

RWG/dt

Copy to: Mr.Selfridge (3)
Mr.Geehan
Ferrous-Metals Br.
F i l e s

COPY

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

January 6, 1953

Memorandum

To: George Selfridge, DMEA

From: Robert W. Geehan

Subject: DMEA 2835 The Claremont Mining Company
Box 9, Ivanpah, California
Sagamore Mine

It is recommended that this application be referred to the Field Team. If the applicant requests the percentage allowance for tungsten loans, the Field Team should be requested to check the actual tungsten values as it appears to be a lead-zinc deposit.

Signed: Robert W. Geehan

Robert W. Geehan

IN REPLY REFER TO:

G-MD-CF

400

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

January 8, 1953

GCS
1/12/53

Memorandum

To: George C. Selfridge

From: Max D. Crittenden

Subject: DMEA 2835 (Tungsten, lead, zinc, copper, silver)
Claremont Mining Corporation
Box 9
Ivanpah, California

The applicant proposes to spend $51,500 to do underground exploration on the property known as the Sagamore mine in the Vanderbilt mining district, San Bernardino County, California.

This property was the subject of a production loan, DMA 1102, for lead, zinc and copper, and was examined by the Field Team, who recommended denial because of the lack of measured reserves. At that time, the exploration program had not been established, but the Field Team did recommend exploration in the amount of $25,000, on the basis of the base metal showing at that time.

In view of the fact that the tungsten content of these veins apparently was not known, and that the No. 1 shaft was not accessible at the time of the first Field Team examination, I recommend that they be asked to re-examine the deposit, and to appraise the tungsten values in the old as well as the recently opened workings. It may be advisable to compromise between 50 and 75 percent participation if an exploration contract is consummated.

Max D. Crittenden

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

400

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 1953

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2733
Metal or Mineral
Date Received 1/2/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: The Claremont Mining Company
Box 9.
Ivanpah, California.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
See attached sheets.

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Tungsten, Lead, Zinc, copper and silver

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 18 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[x] Money [x] Use of equipment owned by you [x] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated _____, 195__

CLAREMONT MINING COMPANY
(Applicant)

By Larry B. Hollingsworth

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Form MF-103

THE CLAREMONT MINING COMPANY
BOX 9, IVANPAH, CALIFORNIA.

L. Name of Applicant

1 (a). The Claremont Mining Company
Box 9,
Ivanpah, California.

1.(b). Corporation (State of California)

1.(c). President: Charles L. Workman, 421 West 8th St., Claremont, California.

Vice-Pres: E. M. Stepp, 1509 Mt Royal Blvd, Glenshaw, Pa.

Secretary: Harry B. Hollingsworth, 1496 East Grand, Pomona, California.

Treasurer: Ray Sanders, 336 West 2nd st, Claremont, California.

3. Applicants Property Rights

3.(a). The land on which the exploration work will be performed and which will benefit directly or inderictly by the proposed work consists of seven patented mining claims and five unpatented mining claims located in the Vanderbilt Mining District, San Bernardino County, California.

Patented Claims

Name	Mineral	Survey Number 4277-May.9.1904
Alpha 1		
" 2		
" 3		
" 4		
" 5		
" 6		
" 7		

Unpatented Claims

Name	Location notice recorded San Bernardino, California. Quartz Lode Locations	
	Book	Page
Pauline	307	35-6-27-49
Beta 1	317	250-2-13-51
" 2		
" 3		
" 4		
" 5		

3.(b). The Property is known as the Sagamore Mine.

3.(c). The patented claims listed above are held by the Claremont Mining Company in accordance with a lease purchase contract, copy of which is submitted with this application.

The unpatented claims are held by location entirely by the Claremont Mining Company. (Map showing claims is attached.)

3(d). Lease purchase contract is attached.

3(e). There are no other liens.

3(f). See list of unpatented claims.

4. Physical Description.

The work in the Sagamore Mine and on Alpha Claims consists of the following:

Eight tunnels of which only three are in the immediate area in which the exploration work should be done. Of these three tunnels No. 1 and No. 2 are on the western side of the canyon and No. 3 is on the eastern side of the canyon. They are all on the same vein, which varies from two to eight feet in width.

The No. 1 tunnel is some 600 feet in length but only some 350 feet are accessible.

The No. 2 tunnel is 50 ft lower than the No. 1 tunnel and is some 1100 feet in length, of which only 700 feet are accessible.

The No. 3 tunnel is 605 feet in length and is accessible to the face.

Near the portal of Tunnel No. 1 is located No. 1 shaft, the collar of which is at the elevation of No. 1 Tunnel. This shaft is 150 feet deep. One hundred feet below the No. 2 tunnel the 100-foot level has been opened off the shaft to explore in the direction of No. 3 tunnel and to connect to No. 2 shaft which is located near the portal of that tunnel. No. 2 shaft has a depth of 50 feet and is in good condition, having been sunk in the quartz vein which contains fair values in lead, zinc, copper and silver. Much of the vein was mined from the No. 1 Tunnel to the surface and three seperate ore shoots have been completely or partially mined from the No. 2 level to the No. 1 level. There is one stope in No. 3 which was mined some 25 feet above that level.

Of the other tunnels on the claims, two are on the same vein structure as Tunnels No. 1, 2 and 3 and the others are on parallel vein structures.

The 100-foot level on which exploration work will be performed is accessible for inspection.

The No. 1 Shaft is equipped with a gasoline driven hoist, sinking bucket, air and water lines, pump column and manway. The bucket dumps into a bin from which the waste is drawn off in one ton cars to be dumped. If the program is approved it may be more economical because of a limited area in which to dump the waste to remove it by truck. At present the water that is being encountered on the 100-foot level is being pumped by a Deming piston type pump equipped with a 1½ H.P. Electric Motor.

The No. 2 Tunnel is open to the caved area 700 feet from the portal and is equipped with rail and air pipe for most of this distance.

There are five buildings on the property which can serve as living and boarding quarters for the crew, and two buildings at the mine which can serve for shops and storage. (All are in need of rehabilitation.)

4(b). Apparently a rather large production of ore was extracted from the upper or No. 1 Tunnel prior to 1910, of which there is no record. The only production on record consists of the following:-

Year	Tons	%Pb	%Zn	%Cu	Ox.Ag.
1943	169.83	14.9	9.50	4.00	12.79
1951	20.00	16.40	6.50	4.05	15.60
1951	36.00	13.60	5.50	3.65	13.40

The last two shipments were made by this company from ore mined from an ore shoot above the No. 2 Tunnel.

There is no current production and the ore reserves are limited and in part inaccessible.

4(c). Geological Features of the Property.

The Sagamore Mine proper is on the west side of Sagamore Canyon. There are serval other mines within a radius of three miles such as the Copper Queen and the Giant Ledge which are not in production. The country rock is schist and limestone. There are servalroughly parallel fissure veins, dipping from 60 to 90 degrees, cutting thru the claims of this company. The main vein on which the work will be done is a vertical quartz filled vein from 2 feet to 8 feet in width containing values in tungsten, lead, zinc, copper and silver. Attached is a section of the mine showing the proposed exploration work in relation to the mine workings.

4(d). The mine is accessible by car. It is located in the New York Mountains, some 14 miles southwest of Ivanpah,California, and some 4 miles off the county road. Ivanpah is the nearest shipping point on the Union Pacific Railroad. The mine is approximately 82 miles from Las Vegas,Nevada and 75 miles from Needles,Calif., the nearest supply points of importance.

4(e). The following items are available to the extent indicated.

Manpower	Available
Materials	Available in Las Vegas,Nev.
Supplies	" " " " "
Equipment	" " " " "
Water	Domestic Well
Power	No available electric power.

5. Tungsten, Lead Zinc, Copper and Silver.

5(b). Drift east on the 100-foot level from the present face of the east drift, to explore for the downward extension of the ore shoot in No. 2 Shaft and in the stope that was worked in No. 3 Tunnel, a total distance of 500 feet.
Raise to No. 2 shaft.
Rehabilitate the west drift on the 100-foot level for a distance of 100 feet and then drive an additional 600 feet to explore the downward extension of the three major ore shoots.

Raise 100 feet to explore the principal ore shoots and to connect to No. 2 shaft.

5(c). The work will start within 30 days and be completed in 18 months.

5(d). Harry Hollingsworth who is in charge of the work has had many years of practical experience in mining. Provisions should be made for part time employment of an engineer and geologist for mapping and engineering work.

6. Estimate of Costs.

6(~~a~~). B. Drifting costs. Advance 5 feet per shift.

Labor costs per shift.

1 hoistman and compressorman	$ 15.00
1 toplander and truckdriver	13.20
4 miners @ 14.20	56.80
1 supervisor	20.00
	$105.00
Insurance & Payroll taxes 15%	15.75
	$120.75 / 5 $ 24.15

6(~~b~~). C.

Supplies	Cost per foot
Explosives	$ 2.50
Drill steel	1.00
Drill bits	.50
Drill repairs	.90
Hose	.30
Pipe	1.70
Rail	1.00
Lubricants	.30
Small tools & Misc.	.50
Equipment rental	3.20
Fuel	1.50
	13.40

	13.40
Total cost per foot for untimbered sections	$37.55
Additional labor, timber and supplies for timbering	7.25
Total cost per foot for timbered drifts	$44.80

500 feet of drifting will be timbered.

Raising costs.

Estimated unit cost per foot for labor, supervision and consultants	$ 18.00
Estimated unit costs for supplies, equipment rental, etc	13.00
Total	$ 31.00

6(d). Operating equipment owned by operator.

Item	Appros. Value	Monthly depreciation allowance.
Two Mine cars @ $100.00	$ 200.00	
1 stoper	250.00	
2 jackhammers	600.00	
4 sets of drill steel	50.00	
Samll tools	150.00	
1 truck 1½ tons	1000.00	
1 generator (camp lights)	200.00	
1 generator for electric pump	1000.00	
1 electric pump	200.00	
500 feet 2" pipe	200.00	
500 feet 1" pipe	250.00	
	$ 4000.00 / 60	$ 66.66

Operating equipment to be rented.

1 220 cu. ft. compressor

1 gasoline hoist

Total rental $400.00 per month.

6(~~e~~). E. Rehabilitate camp buildings to serve as workmens quarters. $800.00

rehablilitate mine building to serve as shop 300.00

$1100.00

6(f) None.

6(g). Drill repairs (included in unit cost) $.90 per foot

Equipment repairs	$ 400.00
Sampling and assaying	250.00
Engineering and accounting	900.00
	$1550.00

6(h). Road repairs $ 400.00

7(a) Yes.

7(b). With money, equipment and services. The stockholders of this corporation guarantee to provide the money to pay the proportionate part of the costs of the project.

Summary of estimated costs.

	$
Rehabilitate west drift 100 ft. @ 30.00	3000.00
Drift to east and west 950 ft @ 37.55	35672.50
500 feet of timbering @ 7.25	3625.00
Raise to No. 2 tunnel and to bottom of No. 2 200 feet @ 31.00	6200.00
Rehabilitations	1100.00
Miscellaneous	1550.00
Contingencies	400.00
Total cost of project	$ 51547.50

C O P Y

Ivanpah California

December 26, 1952

Mr H. C. Miller, Executive Officer

D.M.E.A. Field Team, Region III

1012 Flood Bldg.

870 Market Street

San Francisco California

Dear Sir,

I mailed to you, on December 17th, an application for an Exploration Loan on the Sagamore Mine. Since then I have received the enclosed assay (from Smith Emory Co.) of a sample of ore taken from the vein at the 100ft (or bottom) level. We took this sample from the first round where we cut the vein as we drifted east on the West section.

The vein here is four feet in width and on the surface does not show any mineral.

We would like to add this information to the data submitted on December 17th.

Yours very truly

/s/ H. B. Hollingsworth

C O P Y

SMITH-EMERY COMPANY
920 Santee Street
Los Angeles

Sample Ore

Received 12/12/52.

Submitted by Claremont Mining Company
Ivanpah,
California.

Date December 18, 1952.

		PER TON OF 2000 LBS.				COOPER	LEAD	ZINC
		GOLD		SILVER				
NUMBER	MARK	OUNCES	VALUE	OUNCES	VALUE	PER CENT	PER CENT	PER CENT
362224		Trace	-	2.00	$1.81	0.10%	2.60%	2.35%

REPORT OF CHEMICAL DETERMINATION:

Tungsten Trioxide (WO_3) ------- 0.82%

Respectfully submitted,

/s/ Smith-Emery Co.
Assayers and Metallurgists
EOS

IN REPLY REFER TO:

400

G-MD-CF

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

January 13, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 14 1953

To: George C. Selfridge

From: Max D. Crittenden

Subject: DMEA-2835 (tungsten, lead, zinc, copper)
Claremont Mining Corp.
Box 9
Ivanpah, California

The following memorandum supersedes that of January 8th, whose recommendation should be disregarded.

The report of the Field Team on DMPA-1102 indicates that the average tungsten content of the 24 samples cut in the old workings (excluding the one high-grade sample) is less than 0.08 percent WO_3. Block 2, for which the average grade of 0.2 percent WO_3 is given, actually depends on samples No. 10 to 15, which average only 0.025 percent WO_3.

In view of this, the property can hardly qualify as a tungsten prospect, and on that basis alone, probably does not warrant a re-examination. Nevertheless, it may be worthwhile to ask the Field Team to check the exposures on the level recently reopened. But, unless the showings there show a tungsten content several times that of the upper levels, the proposed exploration cannot be justified on that basis, and must depend entirely on the lead-zinc values.

Max D. Crittenden

Mr. Harry L. Hollingsworth
The Claremont Mining Company
Box 9
Ivanpah, California

JAN 15 1953

Re: Docket No. 2835 -
Tungsten, Lead, Zinc, Copper
Sycamore Mine
San Bernardino County, California

Dear Mr. Hollingsworth:

Your application for exploration assistance on the above-noted project has been reviewed and has been referred to Mr. H. C. Miller, Executive Officer, MSA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you can render the members of the field team in the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman/ls
1/13/53

CC: DOCKET
FIELD TEAM, REG. 3
CODE 400
ADMN. ASST. SEC.
OPER. COMMITTEE
D. M. LEMMON, USGS
R. V. GEEHAN, USBM

Mr. M. G. Miller
Executive Officer, DMA Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

JAN 1 5 1953

Re: Docket No. 2835 -
Tungsten, Lead, Zinc, Copper
Claremont Mining Company
Sycamore Mine
San Bernardino County, California

Dear Mr. Miller:

Reference is made to the subject Docket. It appears desirable that a field examination be made of this property and it is suggested that the field team take note of the following:

(1) We have at hand a report on the property by a field team for an examination made in answer to a request for a production loan. We note that it was recommended that a production loan be denied due to the lack of ore reserves, but an exploration loan might be feasible. Since the above examination the shaft has been pumped out and some work has been done on the 100-foot level. As the former examination covered the upper workings quite thoroughly, the new examination would probably be confined to the new area opened up on the 100-foot level.

(2) To us it appears that the possibility of producing any tungsten from the property is very limited. If the two high grade samples for tungsten taken on the lower tunnel level stopes were eliminated the average values would be about 0.08 percent WO_3. Hence, one of the main things to decide is the category of the project. Would it be under the head of a tungsten, lead, zinc, copper project or just a lead, zinc, copper project?

(3) Would it be possible to obtain a sample from the property for a rough mill test to determine the concentration possibilities? From rough figures on the concentration possibilities of this type and grade of ore it appears that any operation of the property would be at loss at the present market. With the market prices of last Spring, the operation would be marginal.

(4) What is the condition of the ore above the lower tunnel level? Is it oxidized or partially oxidized? This would make a decided difference on the concentration possibilities.

(5) If an exploration contract is recommended, it will be necessary for Mr. Charles L. Workman to make an assignment of the lease to the Claremont Mining Company.

(6) It will be necessary to obtain an Owner's Consent to Lien from the owners of the property.

Inclosed find two copies each of memoranda from the Commodity Divisions of the U. S. Geological Survey and the U. S. Bureau of Mines.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

J. H. Hedges
For Bureau of Mines

T. P. Thayer
For Geological Survey

TLChapman/ls
1-13-53

cc: DOCKET
FIELD TEAM, REG. 3
CODE 400
OPER. COMMITTEE
ADMN. RMAD. FILE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

Lma 11021

336 West 2nd. St.
Claremont, Calif.
April 10, 1951

Mr. James Boyd, Administrator
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Boyd:

Government Loan to the Claremont Mining Company

We are enclosing with this letter four copies of theStandard form used in applying for financial aide from the government, and are submitting this additional information for your consideration.

Name of Company; The Claremont Mining Company, a Corporation
General Offices; 336 West 2nd. St., Claremont, Calif.
Directors;

Howard F. Keller, President and General Manager
455 West 7th. St., Claremont, Calif.

C. L. Workman, Vice President
421 West 8th. St., Claremont, Calif.

Ray Sanders, Treasurer
644 West 10th. St., Claremont, Calif.

Harry Hollingsworth, Secretary
1496 East Grand Ave., Pomona, Calif.

Mining Property

Our mining property consists of eight patented claims, Alpha No. 1 to Alpha No. 8, and five unpatented claims, Beta No. 1 to Beta No. 5. The patented claims cover the mine workings and installations of the Sagamore Mine, which was formerly owned by Mrs. Julia Willits Brown.

The Sagamore Mine is located at an elevation of 6000 feet on the southeastern flank of the New York Mountains, some 14 miles southwest of Ivanpah, Calif., in sections 32 and 33, Township 14 North, Range 16 East, San Bernardino base and meridian, San Bernardino county, California. From Ivanpah which is a station on the Union Pacific R.R., the mine can be reached by car by driving south on the road to Goffs a distance of 10 miles on the county gravel road and then travel four miles to the west on this company's private road.

In February of this year, our company signed a formal contract for the purchase of the Alpha claims and the Sagamore Mine, after having had the property on lease since 1948. Since contracting for the purchase of the Sagamore Mine, we located, surveyed and did the location work on the five Beta claims.

HISTORY

The veins of the Sagamore Mine were first discovered about 1850 but the first mining was not done until about 1870 by a group of mormans. At that time they worked a narrow vein which was exceptionally rich in silver. In the 1890's work was started on the main veins of the property and in 1904 the eight Alpha claims were patented under Mineral Survey No. 4277, by Mrs R. L. Craig et al. On June 1, 1905 Mr. Thomas Doak, a mining engineer examined the Sagamore Mine and reported ore reserves of 174,000 tons of good mill ore assaying 6.12 oz. Ag., 6.0% Pb, and 2.1 % Cu. We have discovered that Mr.Doak's sampling was accurate but that he greatly over estimated the tonnage of ore contained in the blocks that he calculated.

On Feb. 4, 1908, Baverstock & Staples, engineers and assayers of Los Angeles, Calif., cleaned out the tunnels and shafts and developed the mine sufficiently so that they estimated reserves of 64,000 tons containing 7.00 Oz. Ag, 6.00 % Pb, and 1.50 % Cu. The mine was not worked after 1908 because of the drop in the price of silver, until during the first World War at which time we believe that some work was done.

About 1921 the Tecopa Consolidated Mining Company, acquired the Sagamore Mine and carried out an extensive development program, but apparently did very little mining. At this time they ran the main tunnel a distance of 600 feet thus making the total length from the portal to the face 1100 ft.. They also deepened the main shaft to the 100 ft.level below the main tunnel and drove a crosscut to the vein which assayed over a width of 42 inches the following; 19.00 Oz Ag, 12.00 % Pb, and 1.00 % Cu.. In those days they did not assay for zinc and tungsten in the samples taken at this mine.

From 1942 to 1945 this mine was leased by the California Sulphur Company. During that period they shipped the following ore and concentrates;

Year	Tons	Oz Ag	% Pb	% Zn	% Cu	Smelter Shipped to
1942	113.0	5.1	5.75	4.10	1.35	A.S.&R. Co., Utah
	9.5	27.3	22.90	16.40	6.20	Hand Concentrated
1943 &	169.8	12.8	14.90	9.50	4.00	International
1944	26.2	25.0	25.20	13.50	7.00	Concentrates
1945	26.9	4.1	4.50	3.30	1.40	Milling ore

Since 1945 the property has not been worked until we signed the purchase contract in February. Since that time we cleaned out the lower tunnel, replaced the old timber and track and installed an air line. We now have a lot of hand sorted ore ready for shipment and have stock-piled the second grade ore on the mine dump.

VEINS AND MINERALS

The oldest rocks in the vicinity are schists formed from metamorphosed volcanics. These rocks have been fractured to such an extent that there are several parallel quartz fissure veins within the limits of our claims. There are five wide strong veins and several smaller veins in the Alpha claims and three wide strong veins in the Beta claims. The schists have also been intruded by dikes of rhyolite and felsite which are approximately parallel to the quartz veins altho the main vein is intersected in two places by these dikes the general trend is parallel.
The principal vein on which most of the development work has been done can be followed easily on the surface for a distance of 5200 ft. and disappears under the limestone at the east and west extremities of our claims. This vein as well as most of the other strong veins varies in width from one foot to ten feet. The vein has an average width of three feet in the ore shoots that have been developed sufficiently to permit the calculation of ore reserve blocks. The ore minerals of economic value found disseminating thru the quartz vein and in places completely replacing the quartz vein are the following; Galena, argentite, sphalerite, chalcopyrite, tetrahedrite, huebnerite and scheelite. The two tungsten minerals occur in vein in rather high grade pockets and generally where there is little or no sulphide mineralization. The average metal content of all the samples taken to determine the value of the ore reserves is the following;

Samples	Oz. Ag.	Cu	Pb	Zn	W3
Recent samples	5.9	2.05	4.42	2.63	0.50
Doaks samples	6.12	2.10	4.70	No results for Zinc and tungsten	
Baverstock & Staples samples	7.00	1.50	6.00	(No results for Zinc and tungsten)	

Attached to this letter you will find a sketch of the vertical projection of the main mine workings showing the ore reserve blocks that we consider in making this request for a government loan. Our calculation is very conservative and does not take into consideration the ore reserves actually developed on the other veins and claims of this company.

ORE RESERVES

Altho there is minable ore on all the other claims of the Alpha group, we have considered for our report only the ore reserves in Alpha No. 1 and Alpha No. 2 claims, that we have surveyed mapped and sampled. Attached are sketches showing the location of the ore reserve blocks in this classification.

Alpha No. 1	Tons	Ag	Cu	Pb	Zn	WO_3
Block 1	10500	8.60	2.24	8.25	4.75	0.05
Block 2	9000	5.52	1.83	4.14	3.00	0.65
Alpha No. 2						
Block 3	1900	9.60	2.75	7.30	2.55	0.90
Block 4	2200	7.20	1.85	4.10	2.70	1.40
Total Blocks	23600	7.40	2.06	6.20	2.90	0.46
Mine Dumps	15000	2.40	1.00	2.80	1.30	No sample

In addition to these reserves which can be mined with little or no preparation work, there are known ore shoots on the other claims of this company that could be mined profitablly if a mill could be installed in this district to handle mill grade ore.

Description of Mine Workings

In all there are seven separate mines on the Alpha claims. all of which have been worked separately at one time or another. The veins in all these workings are similiar in mineralization and general trend, and show a general tendency for richer mineralization with depth. The main mine workings that we are opening up and mining are developed on two levels. The upper level is 700 feet in length and the lower level is 1100 feet long. They are connected by two shafts, one of which starts at the portal of the upper tunnel and bottoms 1 0 ft below the lower tunnel, the other one starts on the surface about 90 ft. above the upper tunnel and connects to the lower tunnel. The lower tunnel is caved at 740 feet from the portal where high-graders worked during the past three years without timbering correctly. The upper level is also caved vertically above this point. On the same vein and across the canyon a distance of 600 feet, there is a tunnel 625 feet in length that connects to a 75 ft. air shaft to the surface. There is also a 50 foot shaft at the portal of this tunnel that has very good values its total depth. Further to the east there is a tunnel 400 feet long, connected to a shaft to the surface. This tunnel is caved at the portal so the writer has not been able to survey and examine it, but from the appearances of the material on the dump, the ore that was extracted contained good values in tungsten in the form of huebnerite, as well as values in copper, lead, zinc, and silver. Still further to the east and on this same vein there are several open-cuts, tunnels and shafts most of which show good vein mineralization. In the Alpha No. 7 claim which is the most easterly claim of this group, the main vein splits into three branches all of which are wide and carry good values especially in copper and silver. The most southerly branch vein carries very good values in tungsten.

On a differant vein on the Alpha No. 5 claim, there are several open-cuts, tunnels and shafts along the vein for a distanse of several hundred feet. Apparently a rather large tonnage of ore was mined and shipped from this mine. One tunnel is 160 feet in length with a shaft 90 feet deep. Both these workings are on the vein which is rather narrow and irregular but contains good values in silver and copper.

On the Alpha No. 4 claim on a vein parrallel to the vein on Alpha No. 5, there is a large amount of development work. One tunnel is 400 feet in length and has three shafts, one of 80 feet and the other two of 60 feet each. Most of this development work is on the vein which altho only two feet wide has very good milling ore. Attached is a sketch showing the general location of the veins and workings in the differant claims.

Surface and Underground Installations

We own seven buildings that are for dwellings of which only four are being used by us and our workmen. We have installed a Kohler electric light plant for these buildings and have now obtained the necessary pipe to permit us to install a domestic water system.

At the mine there are two buildings one of which we are using as a tool shed and the other for the blacksmith shop. since purchasing the property we have obtained and installed the following equipment;

1 Worthington No 105 portable air compressor
2 Air drills
2 Pressure water tanks
700 ft. of 2" air pipe
6 Sets of drill steel
Drill bits as required
3 50 ft. lengths of 3/4" air hose
3 50 ft. " " ½" " "
900 ft. mine track
2 Mine cars
1 Air driven timber saw
1 Electric driven forge
1 Gasoline motor for hoist
Mine timber as required
Picks, shovels, saws, hammers and all other necessary tools
2 Gasoline driven water pumps
1 Ore bin for loading trucks (Installed previously)

Description Of Proposed Project

The only reason that this property has not been operated successfully in the past is that there has never been a flotation mill on the property or close enough to permit the concentration of the ore before being shipped to the smelters. Prevéously as at present the ore has been hand sorted at the mine into shipping ore and milling ore, the latter being left in the mine as stope filling or stock-

piling it on the mine dumps. We wish to obtain this loan from the government to permit us to properly install a flotation mill in this district, which can treat not only our ore but that of other mine operators in this district who are in the same situation as ourselves, to repair our road so as to permit the easy transportation of our ore not only to the proposed mill but also to the railroad for shipment to the smelter, and to permit us to further develop the mine by repairing the shaft and installing a head frame and hoist. The following is a summary of the various projects that we hope to be able realize with the aid of this loan.

1A	Build and repair road to Mine	$ 2500.00
1	Drill water well and equip with pump	$ 5000.00
2	Purchase mill and mine equipment	25000.00
3	Dismantle, move and erect mill and equipment	25000.00
4	Install head frame and hoist and motor	10000.00
5	Working capital	12500.00
	Total Cost of Projects	$ 80000.00

Build and repair road to Mine

By the construction of 7500feet of road we can reduce the length of our haul to Ivanpah by three and a half miles. We have the use of the necessary bull-dozers and other equipment to do the work.

Drill water well and equip with pump

In order to install the mill near the mine it will be necessary to provide water by drilling a well in the flat at the mouth of the canyon some three miles from the mine. We doubt that water in the quantity necessary for a 75 to 100 ton mill can be obtained closer to the mine. If sufficient water is encountered at this location then the mill could be located at a distance of about three hundred feet. If sufficient water is not encountered then it would be necessary to install the mill in Ivanpah, a distance of 14 miles from the mine by the present road, where we have obtained permission of the county authorities to use their water well which is capable of producing 350 gallons per minute.

Purchase Mill, Mill Building and Equipment

We have the opportunity to purchase all the material, equipment and buildings at an abandoned mine and mill for the sum of 15,000.00. This purchase would include the following;

Complete 75 - 100 ton mill including flotation section and building and tools
12 Dwelling houses
Complete laboratory equipment and building
1 Truck scales
2 Mine compressors
6 Air drills complete with columns, arms, carriages, hoses drill steel and bits
Several tons of used and new mine rail
" " " " " " 3/4, 1, 2, and 3" pipe
All motors, tools and other supplies needed for this operation

In addition to the purchase of this equipment which is in excellent condition, we would have to purchase a diesel operated 150 h.p. generating unit and two wilfley consentrating tables which would cost an additional $ 10,000.00. We wish to use the wilfley tables to table the tailings from the flotation section so as to recover the huebnerite and scheelite that occurs in most of the ore that will be mined.

Move and erect mill and equipment.

As the mill and mine equipment that we wish to purchase is only 72 miles from our mine, we have calculated that we can dismantle, move and install it at the new mill site and mine for $ 25,000.00.

Installation of a head-frame, hoist and power plant

The main shaft is caved for a distance of 25 feet below the collar of the shaft. This section would have to be caught up and repaired and retimbered. The shaft collar should be concreted and a new headframe will have to be built and erected. the hoist and power plant will have to be purchased and installed to permit us to develope this mine in depth.

Working capital

We believe that with $ 12,500.00 additional working capital and the rest of the loan, that we shall be able to carry out all the proposed work and at the same time continue to open up and develop the mine.

Time Schedule

If possible we would like to obtain as soon as possible the sum of $ 20,000.00 with which we could start drilling the water well near the mine and terminate the purchase of the mill and mine equipment from the mine that has been shut down. As soon as we obtained this money we would start drill-the well and dismantling the mill equipment for transportation to the new mill location. Once we have started drilling the water well, we should know within 45 days whether the well will furnish sufficient water or not. By the time that the well is finished, the mill and building will be ready for transportation to the new mill building.

Sixty days after we start moving the mill equipment and building we shall be able to start concentrating our ore, even tho the mill building itself will not be completed. Thirty days from receiving the first $ 20,000.00, we should receive the rest of the loan or a large part of it to permit us to complete all the proposed work.

Potential production of critical metals

We believe so completely in the future of this mine that the four directors of this company are investing their personal savings and time in order to make a success of this [illegible]

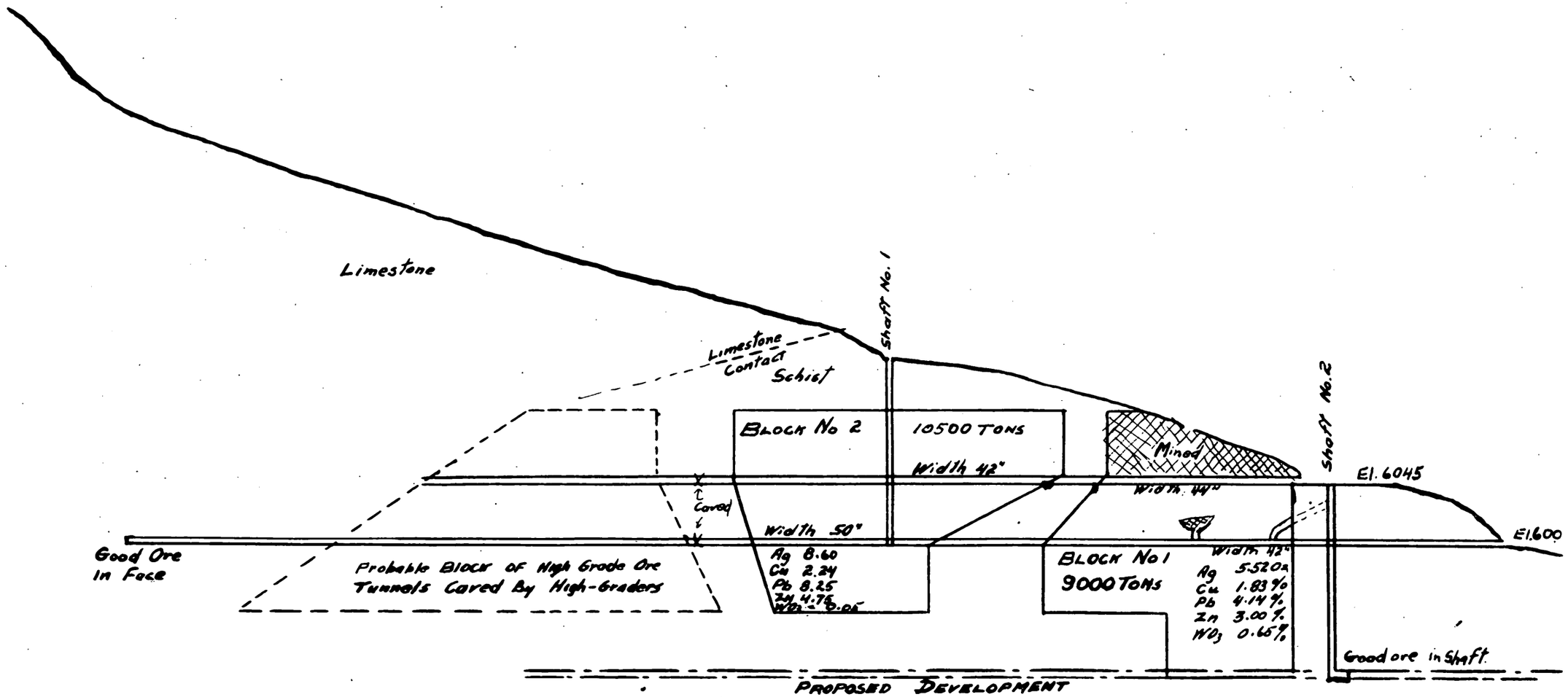
The writer, who is a graduate mining engineer with 26 years experience in examining, supervising and managing mining properties in Mexico and South America, believes that this whole district will become an important producer of critical minerals once a flotation mill is established within reasonable truck haulage distance for mill ore. We recommend that a government engineer examine not only our properties but those of adjacent mine owners to ascertain the future potential productive possibilities of this district.

We believe that a government loan to this company will be soon repaid by our increased production and that the construction of this mill will stimulate mining in the whole district.

Hoping to have a favorable reply to this letter, I am

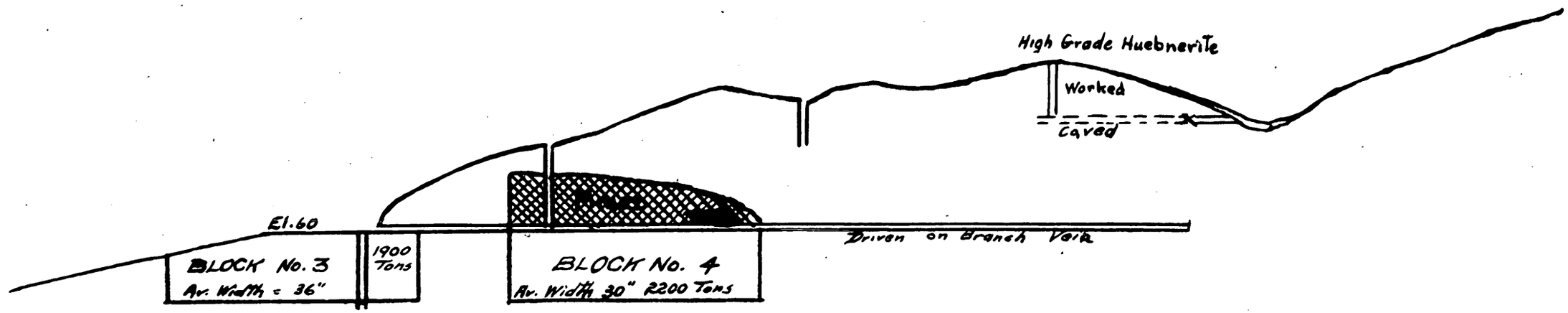
Very sincerely yours,

H. F. Keller, President
Claremont Mining Company



WEST SECTION

SAGAMORE MINE
CLAREMONT MINING COMPANY
ALPHA No. 1 CLAIM
SCALE 1" = 100'

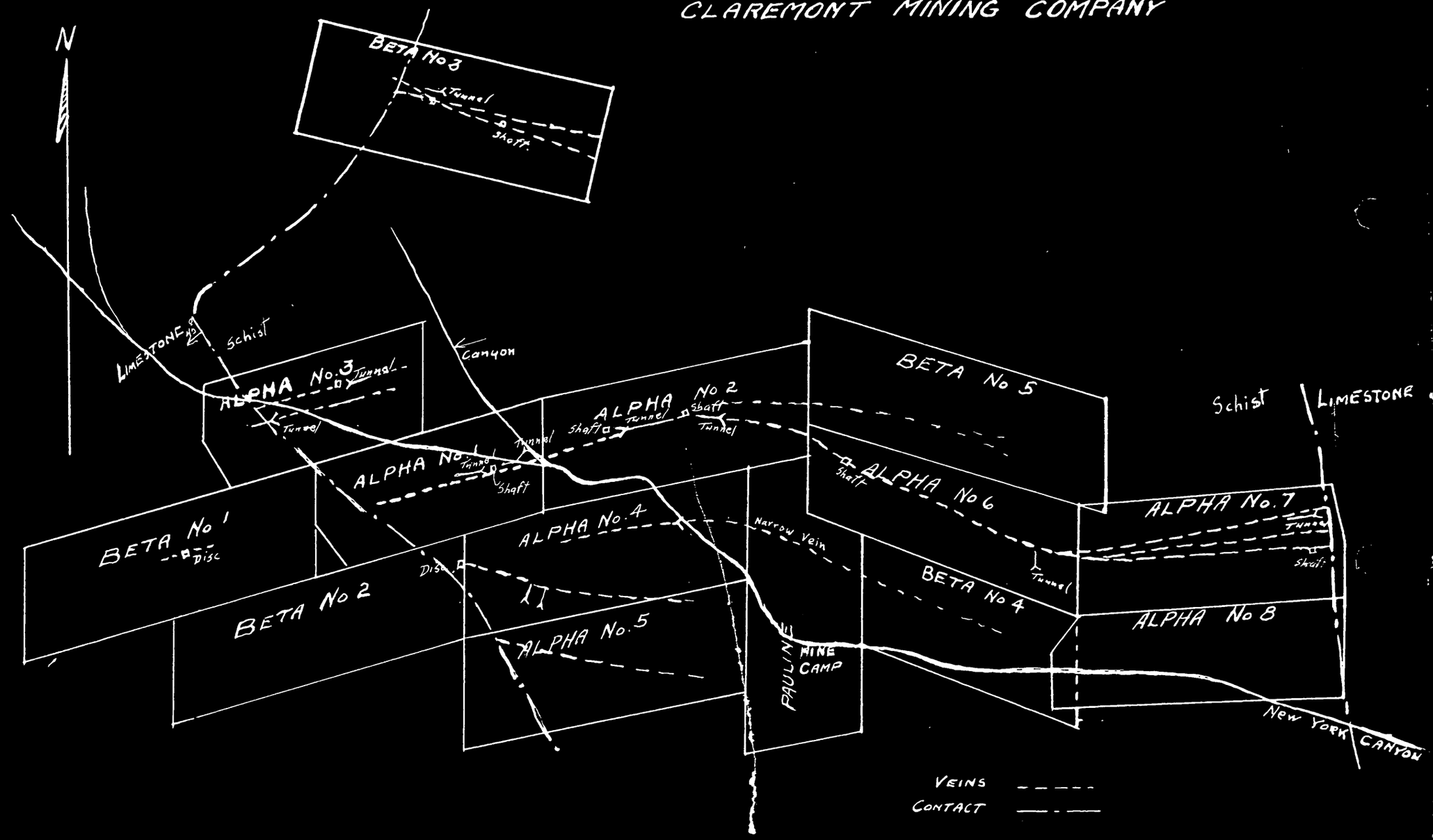


Vein is wide and well mineralized
From Block No 3 to West Section
a Distance of 600'

EAST SECTION

SAGAMORE MINE
ALPHA No. 2 CLAIM
600 Ft. EAST OF WEST SECTION
SCALE 1" = 100'

MINING CLAIMS OF THE CLAREMONT MINING COMPANY



dma 11021

Form NSRB-146
(Nov. 1950)

UNITED STATES GOVERNMENT

APPLICATION FOR GOVERNMENT LOAN
UNDER SEC. 302 OF
DEFENSE PRODUCTION ACT OF 1950

FORM APPROVED
BUDGET BUREAU NO. 25-R002

AMOUNT OF LOAN REQUESTED
$ 80,000.00

TERMS OF LOAN REQUESTED
Cash loan

DATE OF APPLICATION
April 10, 1951

NAME AND ADDRESS OF APPLICANT (Street, City, Zone, State)

Howard F. Holler
Claremont Mining Co.
336 West 2nd Street
Claremont, California

TO BE FILLED IN BY DELEGATE AGENCY

(DATE RECEIVED)

COMM.

AGRIC.

INT.

D.T.A.

FILE NO.

INSTRUCTIONS

Application should be filed with the Department of Commerce, Department of Agriculture, Department of Interior, or the Defense Transport Administration, whichever has the primary interest in the facilities, products, or processes involved. However, for convenience of the applicant, he may file with any government agency with which he has contract or other pertinent relationships and such agency will arrange for the transmittal of the application to the appropriate office.

Submit four (4) signed copies of the application. Name and address of applicant should be stamped or typed for identification of each sheet of the application and all accompanying papers. When a question is inapplicable, this should be so stated on the form. Additional sheets may be attached in answering any questions or in providing other supporting information.

1. PURPOSE OF LOAN

Give a brief general statement of the purpose of the loan requested, including in the table below estimated amounts for such major purposes as land acquisition, building construction, purchase of plant, purchase of equipment, working capital, repayment of debt, etc. Statement should make clear whether funds will be used for expansion of capacity, development of technological processes, or production of essential materials.

General Statement

We are operating the Sagamore Mine located in the New York Mountains 14 miles south west of Ivanpah, California. We are now shipping sorted ore and stock-piling milling ore. We wish to obtain a loan to improve the road from the mine to the county road, drill a well for water for the mill, acquire, move, and erect a flotation mill to handle 75 to 100 tons per day and install a head frame and hoist in the main shaft.

NATURE OF EXPENDITURE	AMOUNT
Build and repair road to mine	$2,500.00
Drill well for water for proposed mill	5,000.00
Purchase of co plete 100 ton mill complete with buildings and mine and mill equipment	25,000.00
Dismantling, moving 70 miles and erecting mill & equipment	25,000.00
Erection of head frame and installation of hoist & power plant at mine.	10,000.00
Working Capital.	12,500.00
Total amount applied for	80,000.00

2. PROPOSED METHOD FOR REPAYMENT OF LOAN

State sources of funds, and proposed schedule of repayment

We can repay the loan at the rate of 5 to 10% of the net smelter returns of the concentrate shipments.

3. NATURE OF BUSINESS AND DESCRIPTION OF PROJECT

Describe fully the business activity for which the funds are intended. In so doing, identify the materials and services to be produced, describe the facilities and processes involved, and explain in detail any research activity and the nature of the results expected. Attach blueprints and specifications, if available, and furnish other technical details to the extent that they are not covered elsewhere in the application.

We are mining a complex sulphide ore containing approximately the following values in strategic metals,

Lead	6.20 %	Zinc	2.90 %	Tungsten	0.50%
Copper	2.06 %	Silver	7.4 ounces		

We wish to install a mill to recover the principal metals by flotation and recover the scheelite and hubnerite by tabling the tails.
We have sufficient ore reserves to more than warrant the investment of the money we wish to borrow.

4. Relationship to National Defense. Explain carefully how the expenditure of the funds will contribute to national defense. As a part of such explanation, the following questions should be answered to the extent possible:

(a) What evidence exists as to current shortages of the materials or services to be produced?

All the metals in our ore with the exception of silver are now considered as stategic metals with restrictions on their use for civil consumption.

(b) What evidence exists as to future shortages of the materials or services to be produced?

As long as the present world situation is such as it is at present all these metals will be necessary for our national defence.

(c) Are such shortages, if any, regional or national in scope?

National

(d) In what respects will the use of the funds aid directly in expediting the carrying out of government defense contracts? (A listing of defense contracts, if any, held by applicant is required in item 8 below.)

Provide additional tonnages of these metals.

4. Relationship to National Defense - Continued

(e) In what respects will the use of the funds aid indirectly in expediting the carrying out of government defense contracts or related operations?

Provide additional tonnages of these metals

(f) Are there available alternative methods or facilities to accomplish the same purpose as that for which these funds are intended? (For instance, unused capacity, possibility of multiple shift operations, idle facilities, readily convertible equipment, sub-contracting?) If answer is yes, explain why alternatives are not used.

No

5. Maximum Designed Production

List separately materials or services identified in item 3 (a)	Unit of measure (b)	Maximum designed production with existing facilities (c)	Average percentage of maximum designed production used in quarter preceding filing of application (d)	Maximum designed production including use of funds applied for (e)
lead	tons	20.00	100%	100.00
copper	tons	15.00	100%	21.00
zinc	tons	7.5	100%	40.50
silver	ounces	1200.	100%	32,400.00
tungsten	tons	0.0	100%	7.50

6. Employment

(a) Number currently employed at location(s) where funds are to be used. (Use pay period ending nearest 15th of month preceding filing of application.)

6

(b) Maximum feasible employment with existing facilities.

(1) Single shift operation.

6

(2) Multiple shift operation (specify how many shifts).

10 2 shifts

(c) Estimated additional employees required by the use of the funds applied for.

24

7. Timing

(a) On what date(s) are the requested funds needed?

30 days for drilling well for water and purchase of mill and equipment so we have an option agreement for that time.
Rest of loan should be granted as soon after that date as possible.

(b) On what expected date(s) will applicant begin to use such funds and obtain output from the use of such funds? Wherever possible, give planned schedule of output.

Drill water well	30 days
Purchase of mill and erecting	30 days
Dismantling, moving, and erecting	60 days
Start operation of mill within	90 days

8. Output from the use of funds applied for will be for the following purposes:

a. For the following principal prime defense contracts (if any) with the United States Government:

Date of contract (a)	Contracting Government Agency (b)	Program symbol (2 digits) or other contract identification (c)	Materials or services (d)	Delivery date(s) (e)	Amount *(Dollars)* (f)

b. For the following subcontracts (if any) with U.S. Government prime defense contractors:

Date of contract (a)	Materials or services (b)	Supplied to *(Give name and address of firm)* (c)	Delivery date(s) (d)	(e) Government agency receiving end product or services (f) Program symbol (2 digits) or other contract identification	Amount *(Dollars)* (g)
				(e) (f)	
				(e) (f)	
				(e) (f)	

c. For the following classes or types of customers not covered by contracts listed above (list materials or services to be provided and, wherever possible, also indicate final product use):

To furnish additional supplies of strategic metals

9. **Feasibility**

(a) Estimate anticipated requirements for manpower, equipment, raw materials, energy, fuel, transportation facilities, water supply, housing, community facilities, and other factors of production, for (1) preparation of the facilities and (2) actual operation thereof. (The estimates may be limited to those factors of substantial significance to the preparation and operation of the facilities for which the funds are intended.)

We shall need the following services & supplies
1. 24 additional employees
2. 1000 gal. gasoline per month
3. 15 tons diesel oil per month for power generation
4. 75 gal. per min. of water for mill
5. 12 houses
6. 1500 bits per month
7. one 8 ton dump truck
8. Flotation reagents
9. grinding balls & mill liners.

(b) Discuss and evaluate the availability of each of the above factors in the area(s) where the funds will be used.

1. We can use Mexican miners who are plentiful in California.
2. Gasoline can be purchased at Needles, California
3. Diesel Oil is available at Needles, California
4. Proposed well should furnish this quantity of water, if not mill can be located at Ivanpah where we can use county well capable of 250 G.P.M.
5. With purchase of mill we also obtain 12 houses which can easily be moved the 70 miles.
6. Drill bits are still available.
7. We have one 8 ton truck and can purchase another if needed.
8. Flotation reagents are available.
9. Grinding media are available

10. The following applications for necessity certificates for tax amortization (Under Section 124A of the Internal Revenue Code) for facilities at the location(s) covered by this application have been filed since January 1, 1950.

Date of application (a)	Government file number (b)	(Estimated) Total of facilities in dollars on each application (c)	(d) If final action has been taken, give date of	
			Issuance	Denial
None				

11. **Recent Efforts to Obtain Credit**

(a) Banks—List names and addresses of all Banks of Deposit of Applicant within the last 5 years: *(Mark with an asterisk (*) bank or banks in which deposits are now kept)*

None. Using personal funds of directors.

HISTORY

The veins of the mining claims of this company were first discovered about 1850 but the first mining was not done until about 1870 by a group of mormans. At that time they worked a narrow vein which was exceptionally rich in silver. In the 1890's work was started on the main veins of this company and in 1904 the eight Alpha claims were patented under Mineral Survey No. 4277, by Mrs R. L. Craig et al. On June 1, 1905 Mr. Thomas Doak, a mining engineer examined the Sagamore Mine and reported ore reserves of 174,000 tons of good mill ore assaying 6.12 oz. of silver, 6.00 % Lead, and 2.10 % copper. We have discovered that Mr. Doak's sampling was accurate but that he greatly overestimated the tonnage of ore contained in the blocks that he calculated.

On Feb.4, 1908, Haverstock & Staples, engineers and assayers of Los Angeles, Calif. made out a report covering their work of cleaning out the tunnels and shafts, and developing the mine sufficiently so that they estimated ore reserves of 64,000 tons containing 7.0 Oz. of silver, 6.00 % lead and 1.50 % of copper. The mine was not worked after 1908 until during the first World War, at which time we believe that some work was done.

About 1921 the Tecopa Consolidated Mining Company, acquired the Sagamore Mine and carried out an extensive development program, but apparently did very little actual mining. At this time they drifted on the lower level of the principal mine a distance of 600 feet, thus making the total length of this level 1100 feet. They also deepened the main shaft to the 100 ft. level below the lower tunnel and drove a crosscut to the vein, which assayed over a width of 42 inches the following; 19.00 Oz. of Silver, 12.00 % Lead, and 1.00 % copper.

From 1942 to 1945 this property was leased by the California Sulphur Company. During that time they shipped some 300 tons of hand sorted ore and concentrates.

Since 1945 this property has not been worked (except by high-graders) until we signed the purchase contract in February of 1951. Since that time we cleaned out the lower tunnel, replaced the old timber and track and installed an air line and compressor. We now have a lot of hand sorted ore ready for shipment and have stock-piled the second grade ore on the mine dump.

Management

The writer and applicant, is a graduate Engineer of Mines from the Colorado School of Mines in the Class of 1924. Since that time to the present date he has worked exclusively in the mining industry, always in positions of responsibility. During the past eight years he was employed by the Patino Mines & Enterprises Consolidated, Incorp., in Bolivia in the positions of General Mine Superintendent, Section Manager, Assistant General Manager to General Manager of the Bolivian Tin & Tungsten Mines

Corporation at Huanuni, Bolivia.

From 1940 to 1943 he was employed by the Mauricio Hochschild interests in Bolivia, first as general mine superintendent and then as section manager.

From 1925 to 1940, he was employed by the following companies in Mexico. Nine years as engineer with the Cananea Consolidated Copper Co., four years as manager of the Achotla Unit of Cia. Minera de Penoles, and two years as Mine Superintendent of the San Francisco Mines of Mexico

Leased Agreements

In 1948, Mr. C. L. Workman, obtained a lease on the Alpha claims and the Sagamore Mine. Since that time he has been having the mine inspected by various engineers and geologists so as to obtain an unbiased opinion of the worth of the property. In January 1951, the present dirsctors of the Claremont Mining Company, made a thorough examination of the property and decided to form an operating company and purchase the mine and claims. We immediately started proceedings to incorporate and started negociations to purchase the property. On February 26, 1951 we purchased the claims and mine from Mrs. Julia Willits Brown, a widow, living in Philidelphia, Penn.. The following are the purchase terms;

Total purchase price	$ 100,000.00
Minimum monthly payment	$ 100.00

Royalty payment to apply to purchase price at the rate of 10 % of net smelter returns.

Cost of proposed construction

Build and repair road to mine. Estimated cost $ 2,500.00
We wish to make a new piece of road 7,500 feet in length to shorten our haul to Ivanpah by three and a half miles. We estimate the following costs;

Explosives	$ 200.00
Gasoline	260.00
Transportation of equipment	150.00
Labor	1890.00

Drill water well and equip with pump. Estimated Cost. $ 5,000.00

Drill 800 ft at $ 4.00 per ft.	3,200.00
50 feet of casing at 1.75 per foot	87.50
Pipe, pump and labor	1,712.50

Purchase mill, mill building and equipment, Est. Cost $25,000.00

Purchase of mill and equipment from the Keystone Mine at Good Springs, Nev.	15,000.00
Purchase of 150 hp. diesel generator and two Wilfley concentrating tables	10,000.00

Dismantle, move and erect mill	Estimated Cost	$ 25,000.00
Labor for dismantling mill and equipment		2,200.00
Transportation costs of mill and "		3,000.00
Excavations and foundations for new mill		2,300.00
Costs of new piping and wiring for mill and houses		2,000.00
Excavations and foundations for houses		1,200.00
Labor for erecting mill, equipment, houses etc.		9,300.00
Purchase of extra lumber, nails, hardware etc		2,000.00
10 % for unforseen contingencies		2,500000
Installation of a head frame, hoist and power plant		10.000.00
Lumber for head frame and retimbering shaft		1,400.00
Concrete collar to shaft and hoist foundation		400.00
Purchase of hoist and power unit		4,700.00
Labor		2,500.00
10 % for unforseen contingencies		1,000.00
Working capital		$ 12,500.00

To be used for emergencies in completing the proposed projects and to permit us to continue developing the mine and preparing stopes for the extraction of the greater tonnage of production that will be required as soon as the mill is in operation.

General information concerning applicant and other directors

The applicant, Mr. Howard Frederick Keller, was born at Pigeon, Penn. on Nov. 13, 1900. He has never been in any lawsuit nor bankruptcy and has no debts. He is personally financing most of the work being done by the Claremont Mining Company, and in no way does he wish to assume a debt in the name of the corporation or himself that he does not feel certain can be repaid in the shortest possible time. The other directors of the Claremont Mining Company, are all well known residents of Claremont and Pomona, California, who have never been in bankruptcy nor other difficulties with the law. Each director owns 25 % of the stock of the Claremont Mining Company, which stock cannot be sold except to one of the other directors of the corporation. Neither the applicant, the other directors nor the corporation has any pending or threatened litigation.

11. **Recent Efforts to Obtain Credit** - Continued

(b) State efforts to obtain credit, within 60 days preceding date of application, from banks, the Reconstruction Finance Corporation, or other sources, results, and reasons if refused. (NOTE.— Section 302 of the Defense Production Act of 1950 states that a loan may be extended "only to the extent that it is not otherwise available on reasonable terms." Accordingly, Applicant should show that it has applied to each bank named in (a) above, or explain the reason for not doing so. The fact that a loan of the particular maturity and terms applied for is refused by a bank or banks is not sufficient to comply with the statute, if credit on reasonable terms is available. State whether a bank will participate in the loan, and if so, state name of bank and amount of participation. Full particulars must be given.) List the names and addresses of banks and other lending institutions to which applications for credit have been made, and in each case state date of application, amount of credit available, if any, maximum term for which credit is available, what consideration, if any, was given to possible guarantee of loan under Federal Reserve Regulation V, and reason for refusal or reason loan was not obtained. Indicate whether or not application was definitely refused for further credit on any basis.

None

12. What other forms of government financial assistance, if any, have been received or requested by the applicant in connection with the purposes of the loan herein applied for? If applicant plans to request such assistance in the future, give details.

None

13. **HISTORY, MANAGEMENT, LEASED AGREEMENTS, INSURANCE, ETC.**

These subjects should be fully covered in statements attached hereto. Outline past management experience or other basis for showing competence of the Applicant to perform in accordance with expressed purpose of the application. If plant was purchased, state price, form and terms of payment, date of purchase, from whom and under what circumstances purchase was made. If it is proposed to construct or acquire new facilities (including equipment), state estimated cost and basis of such estimate, form and terms of payment, and from whom purchases of facilities will be made. State whether Applicant, or the business or plant, has been in receivership, bankruptcy, Chapter X, XI or XII, in hands of creditors, committee, or whether Applicant has effected a compromise with creditors, and if so, discuss fully. Indicate whether business is conducted in leased premises and whether any facilities are leased from others and describe terms of any lease agreements. List type and amount of insurance carried on plant property. Describe briefly any pending or threatened litigation affecting Applicant.

14. NAMES AND ADDRESSES OF OFFICERS, DIRECTORS, OR PARTNERS, AND IN ADDITION THERETO, THE FIVE LARGEST STOCKHOLDERS IF A CORPORATION.

NAME AND ADDRESS (a)	Official title (If officer is also director indicate by "D") (b)	Total of annual salary, commissions, bonuses, etc., received from Applicant and affiliates during last fiscal year (c)	Estimated net worth outside of Applicant (d)	Number of shares held in applicant: Common (e)	Number of shares held in applicant: Preferred (f)	Life insurance carried for benefit of Applicant: Amount (g)	Life insurance carried for benefit of Applicant: Net cash surrender value after loans (h)
Howard F. Keller	President D	None	25,000.00	625	none	none	none
455 W. 7th St., Claremont, California							
C. L. Workman	Vice Pres. D	None	15,000.00	625	none	none	none
421 W. 6th St., Claremont, California							
Ray Sanders	Treasurer D	None	100,000.00	625	none	none	none
644 W. 10th St., Claremont, California							
Harry Hollyingsworth	Sec. D	None	15,000.00	625	none	none	none
1496 E. Grand Ave., Pomona, California							
	Total		x x x x x			x x x	x x x

15. CAPITAL STOCK ISSUES

For Corporate Applicants

Item	Authorized (a)	Outstanding (b)	Par value (c)	Number of shares outstanding (d)	Dividend rate last paid (e)
Common stock	$ 2500.00	$ 2500.00	$ no par value	2500.00	none
Preferred stock	$	$	$		

16. PURCHASE AND SALES RELATIONS WITH OTHERS

Does Applicant buy from, sell to, or use the services of, any concern or partnership in which an officer, director, large stockholder, or partner of the Applicant has a substantial interest? If not, so state. If so, give names of such officers, directors, stockholders, and partners, and names of such concerns or partnerships.

No

Does any officer, director, large stockholder, or partner of Applicant receive any commission, bonus, or other payment in cash or services from any concern or partnership with which Applicant has business dealings? If not, so state. If so, give names of such officers, directors, stockholders, or partners and amounts of such commissions, bonuses, or payments.

No

17. COMPENSATION SCHEDULE

INSTRUCTIONS: The schedule shall show the amount of compensation being paid to all employees of Applicant receiving compensation at a rate in excess of $10,000 per annum, including employees paid on a part-time basis where the rate of compensation exceeds $10,000 per annum computed on a full-time basis. If Applicant is a corporation, the schedule should show the compensation, regardless of amount, being paid to all officers, directors, and such stockholders as have an interest in Applicant's business of 10 percent or more. If Applicant is a partnership, the schedule should show the compensation being paid to, or being withdrawn by, all partners for their personal use. If Applicant is an individual, the schedule should show the amount being withdrawn by Applicant for his personal use. In each case the listed person's connection with the business should be indicated (i.e., whether an officer, director, stockholder, partner, owner, etc.). The calendar basis for the compensation should likewise be shown. Attorneys or firms of attorneys on a regular retainer or salary basis should be included. The schedule should include a separate notation indicating the source and amount of any compensation being paid by a company or firm directly or indirectly controlling, affiliated with, or controlled by, Applicant. If the space provided herein is insufficient, the schedule should be continued on the reverse side or appropriate continuation sheets should be attached.

All four owners are working working without compensation until such time as the operation of the property warrants a distribution of profits.

17. COMPENSATION SCHEDULE - Continued

The term "compensation", as used herein and such schedule, shall include all salaries, fees, bonuses, commissions, retainers, regular drawing accounts, and other payments, direct or indirect, in money or otherwise, for personal services.

Name (a)	Position (b)	Compensation paid during previous fiscal year (c)	Present compensation (d)
All four owners are working without compensation until such time as the operation of the property warrants a distribution of profits.			

18. COLLATERAL

(a) The applicant offers the following described collateral as security for repayment of the loan applied for.

Description (a)	Date acquired (b)	Cost (c)	Book Value (Net) (d)	Appraised* value (e)
Property now held:				
Mining claims	Feb. 1951	100,000.00	200,000.00	No appraised
Mine camp consisting of 7 buildings & improvements	Dec. 1950	10,000.00	10,000.00	" "
Mine equipment	Feb. 1951	15,000.00	25 ,000.00	" "
To be acquired:				
Mill site		500.00	2,000.00	No appraised
mill equipment		25,000.00	50,000.00	" "
well		5,000.00	5,000.00	" "
Hoist & Head Frame		10,000.00	10,000.00	" "

* This column need be filled in only if a recent appraisal has been made. If so, identify appraiser below.

Name (a)	Title (b)	Date (c)

(b) Describe existing liens, if any, on property listed above.

EXHIBIT A - CURRENT FINANCIAL STATEMENT

As of _____

(Date not more than 30 days prior to date of application)

ASSETS

CURRENT ASSETS			
1. Cash			$ 12,000.00
2. Notes receivable		$ none	
Less reserve for doubtful notes			
3. Accounts receivable:			
Current	$ none		
Past due not over 4 months			
Past due over 4 months		$	
Less reserve for doubtful accounts			
4. Inventories:			
Raw materials	$ 500.00		
Work in process..mill ore	5,000.00		
Finished goods...sorted ore	4,500.00	$	
Less reserve for inventory losses			10,000.00
5. Other current assets (describe)			200,000.00
TOTAL CURRENT ASSETS			$
FIXED AND OTHER ASSETS			
6. Plant used in business:			
Land. 250 acres mining claims	$200,000.00		
Buildings	10,000.00		
7. Machinery	15,000.00		
8. Equipment, furniture, and fixtures	10,000.00	$	
Less reserve for depreciation			235,000.00
9. Investments—stocks and bonds			Nothing
10. Investments in affiliated companies			Nothing
11. Receivables due from affiliated companies			Nothing
12. Real estate not used in business			Nothing
13. Due from officers, directors, employees, stockholders			Nothing
14. Deferred charges			Nothing
15. Other assets...Millable Mine Dump Ore			150,000.00
TOTAL ASSETS			$ 607,000.00

LIABILITIES

CURRENT LIABILITIES			
16. Notes payable (see schedule 1, page 10):			
Banks		$ none	
Trade creditors			
Officers, stockholders, relatives			
Insurance companies			$ none
17. Accounts payable			none
18. Other current liabilities:			
Delinquent taxes — Real estate		$	
Delinquent taxes — Federal			
Wages and salaries			
Due officers			
Accrued interest, rent, taxes, wages, etc			
			none
TOTAL CURRENT LIABILITIES			$ none
FIXED AND OTHER LIABILITIES			
19. Machinery liens			none
20. Mortgage debts (see schedule 2, page 10)			none
21. Bonds or debentures (see schedule 2, page 10)			none
22. Other liabilities			none
NET WORTH			
23. Common stock (if Applicant is incorporated).....2500 shares no par value			
24. Preferred stock (if Applicant is incorporated)		none	
25. Surplus (if Applicant is incorporated)		none	
26. Capital and Surplus Account (if Applicant is partnership or individual)			none
TOTAL LIABILITIES			$
27. Contingent liabilities (explain) loan for mill & other improvements if this loan is granted			$ 80,000.00

NOTE.— Submit copy of last available audit or of financial statement at close of last fiscal period (if such date differs from date of above statement).

SCHEDULE I - Notes Payable (in detail)

Name and address	Maturity	Amount	State amount and character of collateral	Name of guarantor(s) and/or endorser(s)
None				

SCHEDULE 2 - Mortgage Debt (real estate and/or chattels) or Bond Issue

Names and addresses of holders	Date of maturity	Interest rate	Unpaid principal amount	Date to which interest is paid
None			$	
TOTAL	X X X X X X X	X X X X X X	$ 0.00	X X X X X X X X X X X X X X X X

If mortgage secures a bond issue, state whether bonds are principally held by management and/or stockholders or by others, and attach copy of mortgage indenture.

EXHIBIT B - CONDENSED COMPARATIVE STATEMENT OF INCOME AND EXPENSES

For years ended ~~No report as we started operations~~ this year.
(Insert date of end of fiscal year)

(000.00 omitted)

	(Figures for 3 preceding years) 19	19	19	Current year as of date of Exhibit A
1. Net sales				
2. Cost of goods sold				
3. Gross profit on sales (line 1 minus line 2)				
4. Other income (itemize)				
5. Total (line 3 plus line 4)				
6. Salaries (officers or partners)*				
7. Selling and all other expenses				
8. Total of lines 6 and 7				
9. Profit or loss before depreciation and Federal taxes (line 5 minus line 8)				
10. Depreciation				
11. Federal Income and Excess Profits Taxes				
12. Net profit or loss (line 9 minus lines 10 and 11)				
ANALYSIS OF SURPLUS				
13. Total surplus at beginning of period				
14. Net profit or loss for period				
15. Line 13 plus line 14 if profit; line 13 minus line 14 if loss				
Add:				
16. Surplus paid in during period				
17. Surplus resulting from revaluation of assets				
18. Other additions to surplus (itemize)				
19. Total of lines 15 to 18, inclusive				
Deduct:				
20. Dividends				
21. Other charges to surplus (itemize)				
22. Total of lines 20 and 21				
23. Surplus at end of period (line 19 less line 22), MUST AGREE WITH SURPLUS AS SHOWN IN BALANCE SHEETS				

* To include all payments of any kind (commissions, bonuses, withdrawals) to officers or partners.

NOTE—If years included in the above tables are not adequately representative of applicant's financial experience, information may be submitted for additional years.

EXHIBIT C — CONDENSED COMPARATIVE STATEMENT OF CONDITION

For years ended _____
(Insert date of end of fiscal year)

(000.00 omitted. Use figures to nearest thousand. For instance, the figure $3,489.36 should be written as 3; the figure $3,689.36 should be written as 4)

ASSETS	(Figures for 3 preceding years) 19	19	19	Current year as of date of Exhibit A
CURRENT ASSETS:				
1. Cash				
2. Receivables (after deducting reserves)	No report as we started operations this year			
3. Inventories				
4. Other current assets:				
TOTAL CURRENT ASSETS				
FIXED AND OTHER ASSETS:				
5. Plant accounts (before depreciation):				
Machinery, equipment, etc.				
Delivery equipment				
Real estate and buildings used in business				
6. Other assets (as investments, real estate not used in business, etc.):				
TOTAL ASSETS				
LIABILITIES				
CURRENT LIABILITIES:				
8. Notes payable				
9. Accounts payable	No Liabilities of any Kind.			
10. Accrued liabilities				
11. Other current liabilities:				
TOTAL CURRENT LIABILITIES				
FIXED AND OTHER LIABILITIES:				
12. Mortgage debts				
13. Debentures				
14. Other fixed liabilities:				
RESERVES:				
15. Reserve for depreciation				
16. Other reserves:				
NET WORTH:				
17. Common stock (issued) (if Applicant is incorporated)	2500 shares no par value			
18. Preferred stock (issued) (if Applicant is incorporated)	None			
19. Surplus (if Applicant is incorporated)	None			
20. Capital and surplus account (if Applicant is partnership or individual)	None			
TOTAL LIABILITIES				

NOTE— If years included in the above table are not adequately representative of applicant's financial experience, condition statements may be submitted for additional years.

EXHIBIT D

AGREEMENT AS TO COMPENSATION FOR SERVICES RENDERED OR TO BE RENDERED TO APPLICANT IN CONNECTION WITH APPLICATION AND/OR LOAN

To induce the United States Government and its agencies to make a loan under Sec. 302 of the Defense Production Act of 1950 to _____ (hereinafter called "Applicant") and in consideration of the making of a loan to Applicant, the undersigned, having been retained by Applicant for the purpose of rendering professional or other services in connection with its application for a loan or loans, hereby represents, warrants, and agrees that the undersigned has not been paid, has not made any agreement with the Applicant to be paid, and has not procured any person to pay or agree to pay, and will not, directly or indirectly, charge or receive any bonus, fee, or commission in any form in connection with the said application for, or the obtaining of, the loan applied for by the Applicant, or any compensation in any form for services rendered or to be rendered in connection therewith except for the services and in the amounts stated below:

Name	Description of services	Amount paid	Amount to be paid
No compensation to be given to anyone.		$	$

To induce the making of the loan and the employment of the undersigned by Applicant, the undersigned hereby further warrants, covenants and agrees, upon the consideration herein specified, and in consideration of the employment of the undersigned by Applicant, as above recited, that if the amount of compensation stated above for any such services shall not be deemed reasonable by any agency of the United States Government, the undersigned will reduce the charge for such services to such amount as shall be deemed reasonable by such agency, and will not, directly or indirectly, charge or collect from the Applicant or any other person, any sum in excess of the amount so deemed reasonable; and that if the undersigned has heretofore collected, from the Applicant or any other person, as compensation for any such services, any amount deemed by such agency to be unreasonable, the undersigned will refund to Applicant or such other person such sums as are in excess of the amount deemed reasonable. The undersigned further warrants, covenants and agrees that if the amount of the compensation for any such services is not determinable at the date of application, or is not stated above, it will not collect or charge any sum as compensation for such services without the prior written approval of the Government agency with which this application is officially filed as to the nature of the services for which such compensation is to be paid and the amount of such compensation.

Witness: Roland J. Brauneberger

Address of witness: 2440 - 3rd St. - La Verne, Calif.

Dated April 10, 1951

NOTE—Corporations must execute foregoing certificate in corporate name, by duly authorized officer, and seal must be affixed and duly attested; partnerships must execute in firm name, together with signature of a general partner. If no compensation is paid or to be paid for services rendered in connection with application or loan, this should be so stated and the Applicant should sign this Exhibit.

CERTIFICATION

The Applicant hereby certifies that the statements made in the foregoing application, and all exhibits and documents submitted in connection therewith, are true and correct statements to the best of Applicant's information and belief and are submitted as a basis for credit. The Applicant agrees to reimburse any agency of the United States Government upon demand for any expenses incurred in connection with or arising out of this application or any loan made pursuant hereto.

Dated _____, 19____

Witness: (For individual applicants)

(Signature)

Witness: (For partnership applicants)

(Full name of firm)

By _____, a general partner.
(Signature)

(For corporate applicants)

(CORPORATE SEAL)

Claremont Mining Company
(Full corporate name of Applicant)

Attest: By _____, President
(Signature) (Title)

Larry B Hollingsworth. Secretary
(Signature) (Title)

The United States Criminal Code, 18 U.S.C., Sec. 1001, makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE: 1950 O - 916171

FILE COPY
SURNAME:

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

Rutledge
Martin
Fulton
Kubel
Hodges
Lofgren
Jefferson

BL

Mr. Harry B. Hollingsworth
Claremont Mining Company
Box 9
Ivanpah, California

APR 16 1953

Re: Docket No. 2835 - Tungsten, Lead, Zinc, and Copper
Claremont Mining Company
Sagamore Mine
San Bernardino County, California

Dear Mr. Hollingsworth:

J. C. 4/16/53

Your application for aid for an exploration project and other data available to us in Washington concerning the Sagamore mine have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information indicates to us that the probability of disclosing minable ore reserves of the referenced metals by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

FARutledge/foc
4-10-53
Copy to: Docket
Adm. Reading File
Code 400
Field Team, Reg. 3
Operating Committee
D. M. Lemmon, USGS
R. W. Geehan, USBM

FILE COPY
SURNAME:

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

Administrator, DMEA

4-10-53

Rutledge
Martin
Kulon

Iron and Ferro-Alloys Division, DMEA

Denial of application for exploration assistance in the amount of $51,547.50.
Docket No. DMEA 2835 - Tungsten, Lead, Zinc, and Copper
Claremont Mining Company
Sagamore Mine
San Bernardino County, California

The denial of the subject application by this Division is based on the following information:

(1) An examination by the Field Team was made in 1951 of this property under an application for a $80,000.00 production loan, Docket No. DMA-1102. Though the production loan was denied, the Field Team suggested that an exploration program would receive consideration.

(2) Tungsten, lead, zinc, silver, and copper mineralization at the Sagamore mine is confined to a series of strong quartz veins in schistose quartzite. The ore is low-grade with the tungsten erratically distributed.

(3) The applicant proposed a program of drifting and raising to explore known ore bodies at greater depth. The applicant had already unwatered the 144-foot shaft and started drifting to expose the vein at this level as suggested by the Field Team during the 1951 examination.

(4) The results of the more recent Field Team examination indicate the mineralization is too low-grade to warrant an exploration contract under the Defense Minerals Program. This does not mean that the property is entirely without merit; with high metal prices and low operating costs, this mine might possibly be profitably operated.

(5) The Field Team recommends denial.

(6) The Commodity Division of the U. S. Geological Survey recommends denial.

(7) The Commodity Division of the U. S. Bureau of Mines concurs with the denial of the subject application.

W. S. Martin

W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

FARutledge/foc
4-10-53
Copy to: Docket
Adm. Reading File
Code 400
Operating Committee

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA DATE: 4-10-53

FROM : Iron and Ferro-Alloys Division, DMEA

SUBJECT: Denial of application for exploration assistance in the amount of $51,547.50.
Docket No. DMEA 2835 - Tungsten, Lead, Zinc, and Copper
Claremont Mining Company
Sagamore Mine
San Bernardino County, California

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(3) The applicant proposed a program of drifting and raising to explore known ore bodies at greater depth. The applicant had already unwatered the 144-foot shaft and started drifting to expose the vein at this level as suggested by the Field Team during the 1951 examination.

(4) The results of the more recent Field Team examination indicate the mineralization is too low-grade to warrant an exploration contract under the Defense Minerals Program. This does not mean that the property is entirely without merit; with high metal prices and low operating costs, this mine might possibly be profitably operated.

(5) The Field Team recommends denial.

(6) The Commodity Division of the U. S. Geological Survey recommends denial.

(7) The Commodity Division of the U. S. Bureau of Mines concurs with the denial of the subject application.

W S Martin
W. S. Martin, Acting Chief
Iron and Ferro-Alloys Division

Market

IN REPLY REFER TO:
G-MD-DML

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

April 8, 1953

Memorandum

To: W. S. Martin, DMEA

From: D. M. Lemmon, USGS

Subject: Field Report
Claremont Mining Company
Sagamore mine
San Bernardino County
California

DMEA-2835
Tungsten, etc.

The Sagamore mine was examined February 4, 1953, by George H. Holmes, Jr. (Bureau of Mines), and W. P. Irwin and Wayne Hall (Geological Survey). Their report dated March 17, recommends denial of the application because the metal content in the quartz vein is too low for ore.

I concur in the conclusion that the application should be denied.

D M Lemmon

D. M. Lemmon

Copy retained 404

Docket

set 4/14/53

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

Office of
Executive Officer
DMEA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 31 1953

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

March 27, 1953

WSM

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-2835 (Tungsten-Lead-Zinc-Copper)
Claremont Mining Company
Sagamore Mine, San Bernardino County, California

Reference is made to your letter dated January 15, 1953, suggesting the probable desirability of making a field examination of the subject property.

Attached are four copies of a report entitled "DMEA-2835, Sagamore Mine, San Bernardino County, California, (Lead-Zinc-Silver)," by George H. Holmes, Jr., Mining Engineer, U. S. Bureau of Mines, and W. P. Irwin and Wayne Hall, Geologists, U. S. Geological Survey, dated March 17, 1953.

Attached also are four copies of a report by our Metallurgical Division on a bulk sample from the mine.

The Sagamore property was previously examined as a result of the owner requesting an $60,000 production loan, and it was found to have insufficient reserves to justify the loan. It was suggested at that time that the applicant unwater his 144-foot shaft and do a little drifting to expose the ore at this level, and that he then consider applying for exploration funds through DMEA. These suggestions were followed, and the reexamination was made to evaluate the merits of the applicant's exploration proposal.

The examining engineer and geologists conclude that because of the comparatively low content of lead-zinc and tungsten in the ore the application for exploration funds should be denied.

Although it is recommended that the loan be denied, we are enclosing herewith letter dated February 10, 1953, from Mr. Harry B.

Reviewed by
DMEA OPERATING COMMITTEE
4-6-53
(date)

thru OC
4/6/53

Hollingsworth, of the Claremont Mining Company, to Mr. A. C. Johnson, together with four copies of supplement to his original application. Mr. Hollingsworth has also sent us a copy of Assignment of Lease Interest and Contract for purchase of Mining Property, executed by Charles L. Workman, which he requested us to add to his application file, as well as executed Owner's Consent to Lien forms, of which only four copies were enclosed.

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

Attachments

Copy to: E. H. Bailey, USGS
A. C. Johnson, Reno

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

Bel
4/14/53

Supplementary Report

DMEA-2835, Sagamore Mine

San Bernardino County, Calif.

(lead-zinc-silver)

George H. Holmes, Jr., Mining Engineer
U. S. Bureau of Mines

J. P. Irwin and Wayne Hall, Geologists
U. S. Geological Survey

March 17, 1953

4-6-53

SUPPLEMENTARY REPORT

Docket No.: DMEA-2835

Name and address of applicant: The Claremont Mining Company
Box 9
Ivanpah, California

Name and location of property; Sagamore Mine
San Bernardino Co., Calif.

The Claremont Mining Company's Sagamore Mine, San Bernardino County, California, was visited on Feb. 4, 1953 by George H. Holmes, Jr. of the Bureau of Mines and W. P. Irwin and Wayne Hall of the U. S. Geological Survey, for the purpose of examining and sampling new workings on the 144-foot level and obtaining a bulk sample for metallurgical testing. The field team was accompanied by Harry B. Hollingsworth, mine superintendent.

The mine had been examined previously for Defense Minerals Administration by W. P. Irwin and C. D. Rinehart of the Geological Survey from September 8 to 11, 1951 (see report dated Oct. 30, 1951). The earlier examination was in response to the owner's request for an $80,000 production loan to be used mainly for erecting a mill and mine plant. This request was denied for two principal reasons: (1) the deposit contained insufficient reserves of measured and indicated ore, and (2) the ore is complex, and the recoverable metal content of the ore was not known. At that time the field team suggested that an exploration program might be feasible, and that exhaustive mill tests of the ore be made coincident with exploration.

Since the earlier examination, the shaft below the "lower level" (see fig. 1, report dated Oct. 30, 1951) has been dewatered and reconditioned to the bottom at the 144-foot level (which is 100 feet below the "lower level" of the report of Oct. 30, 1951). A short drift was driven to the northeast along the vein on the 144-foot level, and an old caved drift to the west is being by-passed by a crosscut driven northwesterly from the shaft. No work has been done in other parts of the mine since the former examination.

The applicant's proposal was discussed in detail with Mr. Hollingsworth and the original plan to drift both northeast and southwest on the vein on the 144-foot level was modified to consist of drifting only to the west along the vein on the 144-foot level. This work was to be contingent on results of the field team examination of new workings on the 144-foot level.

The vein at the face of the northeast drift is 4.2 feet in width, consisting of a 3.5 foot band containg low-grade lead-zinc mineralization, and a foot-wall stringer, 0.7 feet wide, containing lead, zinc, scheelite and huebnerite. Assay data from samples taken are:

Sample No.	Location	Width Feet	Percent WO_3	Percent Pb	Percent Zn	Percent Cu	Ounces Au	Ounces Ag
162	Face, east drift, footwall stringer	0.7	1.56	2.9	2.2	1.00	0.005	3.00
163	Face, east drift	3.5	*0.01	0.7	1.1	0.33	Tr	1.60
164	West face of east drift	3.7	*0.01	0.2	1.8	0.47	Tr	2.00

*Less than.

A bulk sample taken from the 30-ton stockpile of ore mined from the northeast drift had the following analyses:

Percent WO_3	Percent Pb	Percent Zn	Percent Cu	Ounces Au	Ounces Ag
0.05	0.9	1.2	0.38	-	1.40

Geology

The geology in the shaft is concealed by lagging. The bottom of the shaft is in the rhyolite porphyry dike exposed on the "lower level", but the exposure is poor and the exact attitude of the dike could not be determined. The remainder of the workings on the 144-foot level are in schistose quartzite.

The quartz vein in schistose quartzite exposed at the face of the east drift of the 144-foot level appears to be the same as that opened by the upper levels. It strikes northeast and is nearly vertical. The average width over its exposed length of 15 feet is about 3 feet. The mineralogy is similar to that on the upper levels. Pyrite, chalcopyrite, galena, bernite, sphalerite, huebnerite and scheelite are the principal metal-bearing minerals. No megascopic evidence of oxidation of the minerals was seen.

Conclusions

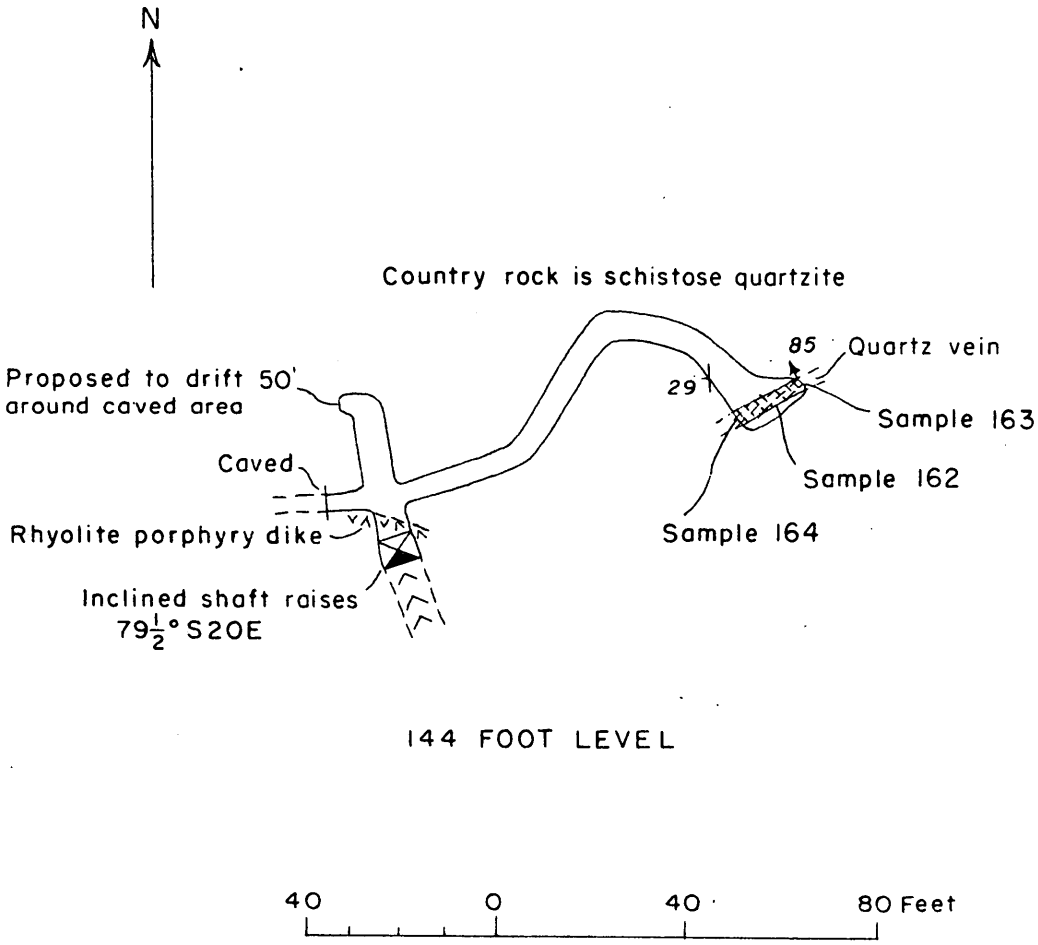
The combined lead-zinc and silver values are too low-grade to permit an economical operation under present metal prices. Tungsten occurrences are erratic and low grade; the average tungsten content of the 30 tons mined on the 144-foot level is 0.05 percent WO_3. High-grade stringers and bands of huebnerite and scheelite occur, but they are not sufficient to be mined separately or to upgrade the lead-zinc ore. In addition, the ore is complex, and it is doubtful that a milling procedure could be worked out which would assure good recovery. Tests on this ore are being made by the Hydrometallurgical and Ore Dressing Branch.

Recommendations

In view of the comparatively low-grade lead-zinc-silver mineralization and the low average tungsten content of the ore and its erratic distribution, it is recommended that the application be denied.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 2835
(Lead, zinc, tungsten)



Mapped by W. E. Hall and W. P. Irwin, February 1953

SAGAMORE MINE, SAN BERNARDINO COUNTY, CALIFORNIA

Figure 1

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Rare and Precious Metals Experiment Station
Hydrometallurgical & Ore-Dressing Branch
Box D, University Station

Metallurgical Division — Reno, Nevada

Region III — March 11, 1953

DMEA - 2835 Claremont Mining Co., Sagamore Mine, San Bernardino County, California (Holmes)

Re-O-2.91

Lead, Zinc, Copper, Tungsten Ore

The gangue of this ore was almost entirely quartz, with clusters and disseminated sulfide mineral grains, including galena, sphalerite, and pyrite, with some chalcopyrite, and covellite coatings on pyrite. Scheelite was present, and a small amount of calcite. The sulfides were intergrown, pyrite with inclusions of the others. While some of the galena and sphalerite were fairly coarse-grained, most of the grains of these minerals were very fine. The scheelite occurred in small clusters, usually associated with the sulfides, and in part, as very fine grains in clusters of pyrite. Silver was present with the galena.

Most of the sulfide clusters were liberated from the quartz gangue by crushing to minus 10-mesh, as was most of the scheelite. The ore was low-grade, analyses showing:

Pb,	percent	1.2	Ag, oz/Ton	1.35
Zn,	do	1.0	Au, oz/Ton	Trace
Cu,	do	0.3		
WO_3	do	0.05		

Because of the favorable texture of the ore, in spite of its low grade, a gravity concentration test was made. The ore was crushed to minus 10-mesh, hydraulically classified into three sand portions and slimes, and each concentrated on the laboratory Wilfley table. The concentrates were combined for further treatment, and the tails discarded, a reduction of 85 percent of the original weight.

Most of the sulfides, and nearly all of the scheelite were recovered in the table concentrates. The losses in the table tails

were chiefly in zinc and copper. Results were:

Product	Weight, percent	Analyses-Percent Pb	Zn	Cu	WO_3	Ag Oz/T	Distribution-Percent Pb	Zn	Cu	WO_3	Ag
Table Conc'ts.	14.9	7.3	3.9	1.7	0.36	7.62	92.8	57.7	74.8	99.8	84.2
Table tails	85.1	0.1	0.5	0.1	*	0.25	7.2	42.3	25.2	-	15.8
Composite	100.0	1.2	1.0	0.3	0.05	1.3	100.0	100.0	100.0	99.8	100.0

* Less than 0.01 percent WO_3

Recoveries were: Lead 92.7 percent, zinc 57.7 percent, copper 74.8 percent, tungsten 99.8 percent, and silver 84.2 percent, in 14.9 percent of the original weight.

Sulfide Flotation

This enriched concentrate product was stage ground to minus 100-mesh and bulk sulfide flotation concentrates made, to drop as much of the scheelite as possible into the bulk flotation tailings. The reagents used, were in pounds per ton of flotation feed, potassium ethyl xanthate, Z-3, 0.02; pine oil, 0.05; and aerofloat 25, 0.05.

Microscopic examination of the bulk flotation concentrates showed much of the sulfides still locked, particularly in the pyrite. The bulk concentrates were therefore reground to minus 200-mesh and considerable further liberation accomplished.

The reground bulk flotation concentrates were then refloated to produce selective recovery of lead and zinc. For lead flotation, the reagents used were in pounds per ton of flotation feed, sodium carbonate 1.0, sodium cyanide 5.0, zinc sulfate 1.0, and ethyl xanthate 0.025. For zinc flotation, the reagents were lime 1.0, copper sulfate 3.0, ethyl xanthate 0.19, and Dowfroth, 0.05.

The lead concentrates contained 51 percent Pb, 8.9 percent Zn, 2.5 percent Cu and 52 oz/Ton Ag, representing recoveries of 74.5 percent of the lead, and 66 percent of the silver, with 13 percent of the copper, in 1.7 percent of the original weight of crude ore.

The zinc concentrates contained 25 percent Zn, 10 percent Pb, 12 percent Cu, and 13 oz/Ton Ag, representing recoveries of 30 percent of the zinc, 42 percent of the copper, and 11 percent of the silver, in 1.2 percent of the weight of the original crude ore.

The tailings from this cleaner operation were mostly pyrite, with still-locked inclusions of galena, sphalerite, chalcopyrite, and scheelite.

Panning and microscopic examination showed no free scheelite, although 22 percent of the original total WO_3 remained in this product.

Detailed data of the sulfide flotation are shown in the following tabulation.

Product	Weight, percent	Analyses-Percent Pb	Zn	Cu	WO_3	Oz/T Ag	Distribution - Percent Pb	Zn	Cu	WO_3	Ag
Pb Conc'ts.	1.7	51.4	8.9	2.5	*	52.35	74.5	15.0	12.6	-	66.0
Zn Conc'ts.	1.2	10.5	25.2	11.9	0.01	12.80	10.7	30.1	42.3	0.2	11.4
Pyrite tails	2.8	2.5	3.2	2.0	0.42	2.80	6.0	8.9	16.4	22.0	5.8
Bulk conc'ts.	5.7	18.8	9.5	4.2	0.28	19.70	91.2	54.0	71.3	22.2	83.2
Bulk tails (Scheelite Feed)	9.2	0.2	0.4	0.1	0.45	0.15	1.6	3.7	3.5	77.6	1.0
Composite (Table conc'ts.)	14.9	7.3	3.9	1.7	0.36	7.62	92.8	57.7	74.8	99.8	84.2

* Less than 0.01 percent WO_3

Scheelite Flotation

The tailings from the primary bulk flotation represented 9.2 percent of the original weight of ore, and contained 77.6 percent of the original total WO_3, with a grade of 0.45 percent WO_3.

A standard flotation test made on this product indicated 90 percent gross recovery of the scheelite in the flotation feed, or 71.7 percent of the scheelite in the original ore. The amount of material available for this test was insufficient to allow complete flotation testing on production of high-grade concentrates.

Conclusions

The results reported herewith indicate that the ore tested can be concentrated and much of the lead and silver recovered. Recovery of zinc was low and the zinc concentrates were low-grade, but perhaps better results could be obtained in continuous operation including cleaning. Tungsten extraction was good, but more work would be necessary to demonstrate production of saleable concentrates.

Of course, the low grade of the original ore might prevent economical treatment by methods similar to those used in the tests.

Claremont Mining Company
Box 9
Ivanpah, California.

6 (B) Drift on vein west from bottom of No. 1 Shaft 500 feet, 6 days a week, advance 3½ feet per day. Hoist Man and Trammer $14.00 per 8 hr shift, Machine Man $15.00, 2 Muckersand Trammers $11.00, 1 Supervisor $17.00 per shift. Labor Per Foot

			Per Ft.
Labor Per Foot			$ 21.04
Insurance and Social Security 12%			2.53
Powder fuse and Detonators			2.00
Timber 250 feet @ 5.00 per ft.			2.50
Compressor supplies			2.00
Steel and Bits			2.00
Repairs-drill etc			1.00
Lubricants			..20
Fuel			.50
Hose			.20
Rental operators equipment			.74
Assaying			.45
Equipment rental			2.20
Accounting and Engineering			.50
			$ 16.82
Equipment to be purchased:			
Rails, ties, fish plates, spikes	500.00		
250 feet 2" pipe	125.00		
1 Mine Car	100.00		
1 1½ H.P. Electric Motor	125.00		
650 feet vent tube	250.00		
	$1100.00	/	2.20
		Labor	$ 21.04
		Supplies	16.82
		Equipment	2.20
		Total	$ 40.06
Operating Equipment furnished by Operator:			
2- Mine cars @ 100.00	200.00		
2- Thor Sinker Drills	600.00		
4- Sets of drill steel	50.00		
Small tools	150.00		
1- 1947 1½ Ton Ford Truck	1000.00		
1- Generator (Camp Lights)	200.00		
500 feet 2" Pipe	250.00		
750 feet 1" Pipe	200.00		
250 feet 1¼" Pipe	75.00		
Acetylene Welding Set, Blacksmith tools	75.00		
1- Kato 15 KV.A Generator	1000.00		
1- 1½ H.P. Electric Pump	200.00		
	$4000.00	1/60th	66.66
Equipment to be rented:			
105 Cu. Ft. Compressor	140.00		
Gasoline Hoist	50.00		190.00

HOWARD F. KELLER
President and General Manager

CHARLES L. WORKMAN
Vice-President

RAY SANDERS
Treasurer

HARRY B. HOLLINGSWORTH
Secretary

CLAREMONT MINING COMPANY

GENERAL OFFICE
336 West Second Street
Claremont, California
Telephone Lycoming 5-2651

MINE OFFICE
Ivanpah, California

Feb. 27th. 53

Mr A C Johnson
Bureau of Mines
Reno. Nevada

Dear Mr Johnson. In reference to our application for DMEA loan no. 2835.

I am enclosing a copy of Workmans assignment of lease to the Claremont Mining Co. Please add it to our file.

We effect owners consent to lieu to be forwarded to you soon.

Very Truly Yours
Harry B Hollingsworth

Assignment of Lease Interest and Contract
for Purchase of Mining Property

KNOW ALL MEN BY THESE PRESENTS: That I, Charles L. Workman, of Claremont, California, for and in consideration of the issuance to me of one hundred twenty five (125) shares of common capital stock of Claremont Mining Company, a California Corporation, by said Claremont Mining Company, do hereby assign, transfer and set over unto said Claremont Mining Company, a California corporation, all right, title and interest of the undersigned in and to that certain lease and contract for purchase of mining property made and entered into February 20, 1951 by and between Julia Willits Brown, a widow, of Philadelphia, Pennsylvania and the undersigned, wherein and whereby said Julia Willits Brown agrees to sell to the undersigned lands, mining claims and mining rights known as the Sagamore Mine, County of San Bernardino, State of California consisting of seven mining claims named Alpha No. 1 to 7 inclusive, being in Sections 32 and 33, Township 14 North, Range 16 East, San Bernardino Base and Meridian, and being Mineral Lot No. 4277, more particularly described in that certain document recorded in the office of the County Recorder of San Bernardino County, California, on June 30, 1906 in Book "h", page 41, said San Bernardino County Records, together with the appurtenances and building thereon and a water claim known as Alpha No. 8.

TO HAVE AND TO HOLD the same unto said Claremont Mining Company, a California corporation, forever, according to the terms and conditions set forth in said contract for purchase.

Assignor does further assign to said Claremont Mining Company, a California corporation, all right, title, and interest of assignor in and to those certain mining claims in the County of San Bernardino, State of California known as the "Pauline" claim containing approximately fourteen (14) acres.

ALLARD, BROWNSBERGER
SHELTON & O'CONNOR
ATTORNEYS AT LAW
FIRST NATIONAL BLDG.
POMONA, CALIFORNIA

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 23 day of May, 1951.

s/ Charles L. Workman

State of California)
) ss
County of Los Angeles)

On this 23 day of May, 1951, before me, a Notary Public in and for said County, personally appeared Charles L. Workman, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal.

s/ Hazel L. McCargar
Notary Public in and for said
County and State
My commission expires May 27, 1954

Photostated
Compared 235 Indexed

Recorded
Request of
Chas. Workman

Jun 9 11 10 a.m. '52
Book 2964 Page 200
Official-Records
San Bernar dino County, Calif.
Ted R. Carpenter, Recorder

Hazel Gabler, dep.

ALLARD, BROWNSBERGER
SHELTON & O'CONNOR
ATTORNEYS AT LAW
FIRST NATIONAL BLDG.
POMONA, CALIFORNIA

February 24, 1953

Mr. A. C. Johnson
Mining Division Region 3
U. S. Bureau of Mines
P. O. Box 1551
Reno, Nevada

Dear Mr. Johnson:

Enclosed please find Owner's Consent To Lien forms properly executed by the executors for the Julia Willits Brown estate.

Yours very truly,

E. M. Stepp

E. M. Stepp

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of California, County of San Bernardino, described ~~as follows:~~ 1/ in a lease or contract dated February 20, 1951 and recorded in Book 2964 page 190 official records of said San Bernardino County at San Bernardino, California, between Julia Willits Brown, widow, of Philadelphia, Pa., owner and lessor, and Charles L. Workman, lessee.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ The Claremont Mining Company, a corporation of the State of California, Box 9, Ivanpah, California

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production 3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/ $22,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 24th day of February, 1953.

Julia Willits Brown Estate [Seal]

Wm. Quillay Brown [Seal]

Charles B. Downs [Seal]

} Executors

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of California, County of San Bernardino described as ~~follows~~ 1/ in a lease or contract dated February 20, 1951 and recorded in Book 2264 page 190 official records of said San Bernardino County at San Bernardino, California, between Julia Willits Brown, widow, of Philadelphia, Pa., owner and lessor, and Charles L. Workman, lessee.

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2/ The Claremont Mining Company, a corporation of the State of California, Box 9, Ivanpah, California

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production 3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 22,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 24th day of February, 1953.

Julia Willits Brown Estate [Seal]

Wm. Finally Brown [Seal]

Charles B. Downs [Seal]

Executors.

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(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

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MF-203

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2/ The Claremont Mining Company, a corporation of the State of California, Box 9, Ivanpah, California

hereinafter called the "Operator"; and

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NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 22,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 24th day of February, 1953.

Julia Willits Brown Estate [Seal]

Wm Fullay Brown [Seal]

Charles B Downs [Seal]

Executors.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of California, County of San Bernardino, described as ~~follows:~~ 1/ in a lease or contract dated February 20, 1951 and recorded in Book 2964 page 190 official records of said San Bernardino County at San Bernardino, California, between Julia Willits Brown, widow, of Philadelphia, Pa., owner and lessor, and Charles L. Workman, lessee.

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/ The Claremont Mining Company, a corporation of the State of California, Box 9, Ivanpah, California

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract, or any amendment thereof, shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production 3/ provided for under the terms of said exploration project contract, or any amendment thereof which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 22,000.00, or ten years have elapsed from the date of the contract.

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

Dated this 24th day of February, 1953.

Julia Willits Brown Estate [Seal]

Wm Fielding Brown [Seal]

Charles B Downs [Seal]

} Executors.

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

400

FILE COPY
SURNAME:

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

Chapman
Martin
Fraya
Fellows
Selfridge

Mr. Harry B. Hollingsworth
The Claremont Mining Company
Box 9
Ivanpah, California

JAN 15 1953

Re: Docket No. 2835 -
Tungsten, Lead, Zinc, Copper
Sagamore Mine
San Bernardino County, California

Dear Mr. Hollingsworth:

Your application for exploration assistance on the above-noted project has been reviewed and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for a field examination.

The Regional Office will contact you at an early date in regard to the examination of your property. Any assistance that you can render the members of the field team in the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Y.C. 1/15/53

Administrator

TLChapman/ls
1/13/53

CC: DOCKET
FIELD TEAM, REG. 3
CODE 400
ADMN. READ. FILE
OPER. COMMITTEE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

FILE COPY
SURNAME:

Chapman
Martin
Selfridge

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

JAN 15 1953

Mr. H. C. Miller
Executive Officer, DMEA Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. 2835 -
Tungsten, Lead, Zinc, Copper
Claremont Mining Company
Sagamore Mine
San Bernardino County, California

Dear Mr. Miller:

Reference is made to the subject docket. It appears desirable that a field examination be made of this property and it is suggested that the field team take note of the following:

(1) We have at hand a report on the property by a field team for an examination made in answer to a request for a production loan. We note that it was recommended that a production loan be denied due to the lack of ore reserves, but an exploration loan might be feasible. Since the above examination the shaft has been pumped out and some work has been done on the 100-foot level. As the former examination covered the upper workings quite thoroughly, the new examination would probably be confined to the new area opened up on the 100-foot level.

J.C. 1/15/53

(2) To us it appears that the possibility of producing any tungsten from the property is very limited. If the two high grade samples for tungsten taken on the lower tunnel level stopes were eliminated the average values would be about 0.08 percent WO_3. Hence, one of the main things to decide is the category of the project. Would it be under the head of a tungsten, lead, zinc, copper project or just a lead, zinc, copper project?

(3) Would it be possible to obtain a sample from the property for a rough mill test to determine the concentration possibilities? From rough figures on the concentration possibilities of this type and grade of ore it appears that any operation of the property would be at loss at the present market. With the market prices of last Spring, the operation would be marginal.

(4) What is the condition of the ore above the lower tunnel level? Is it oxidized or partially oxidized? This would make a decided difference on the concentration possibilities.

(5) If an exploration contract is recommended, it will be necessary for Mr. Charles L. Workman to make an assignment of the lease to the Claremont Mining Company.

(6) It will be necessary to obtain an Owner's Consent to Lien from the owners of the property.

Enclosed find two copies each of memoranda from the Commodity Divisions of the U. S. Geological Survey and the U. S. Bureau of Mines.

Sincerely yours,

George C. Selfridge

(JHS)

Chairman, Operating Committee

Enclosures

J. H. Hodges

For Bureau of Mines

T. P. Thayer

For Geological Survey

TLChapman/ls
1-13-53

cc: DOCKET
FIELD TEAM, REG. 3
CODE 400
OPER. COMMITTEE
ADMN. READ. FILE
D. M. LEMMON, USGS
R. W. GEEHAN, USBM

Doc file

IN REPLY REFER TO:

G-MD-CF

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

January 13, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 14 1953

Memorandum

To: George C. Selfridge

From: Max D. Crittenden

Subject: DMEA-2835 (tungsten, lead, zinc, copper)
Claremont Mining Corp.
Box 9
Ivanpah, California

The following memorandum supersedes that of January 8th, whose recommendation should be disregarded.

The report of the Field Team on DMPA-1102 indicates that the average tungsten content of the 24 samples cut in the old workings (excluding the one high-grade sample) is less than 0.08 percent WO_3. Block 2, for which the average grade of 0.2 percent WO_3 is given, actually depends on samples No. 10 to 15, which average only 0.025 percent WO_3.

In view of this, the property can hardly qualify as a tungsten prospect, and on that basis alone, probably does not warrant a re-examination. Nevertheless, it may be worthwhile to ask the Field Team to check the exposures on the level recently reopened. But, unless the showings there show a tungsten content several times that of the upper levels, the proposed exploration cannot be justified on that basis, and must depend entirely on the lead-zinc values.

Max D. Crittenden Jr

Max D. Crittenden

Docket

IN REPLY REFER TO:

G-MD-CF

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

GCS
1/12/53

January 8, 1953

Memorandum

To: George C. Selfridge

From: Max D. Crittenden

Subject: DMEA 2835 (Tungsten, lead, zinc, copper, silver)
Claremont Mining Corporation
Box 9
Ivanpah, California

The applicant proposes to spend $51,500 to do underground exploration on the property known as the Sagamore mine in the Vanderbilt mining district, San Bernardino County, California.

This property was the subject of a production loan, DMA 1102, for lead, zinc and copper, and was examined by the Field Team, who recommended denial because of the lack of measured reserves. At that time, the exploration program had not been established, but the Field Team did recommend exploration in the amount of $25,000, on the basis of the base metal showing at that time.

In view of the fact that the tungsten content of these veins apparently was not known, and that the No. 1 shaft was not accessible at the time of the first Field Team examination, I recommend that they be asked to re-examine the deposit, and to appraise the tungsten values in the old as well as the recently opened workings. It may be advisable to compromise between 50 and 75 percent participation if an exploration contract is consumated.

Max D. Crittenden

Max D. Crittenden

Copy retained 400

January 8, 1953

Memorandum

To: George S. Selfridge

From: Max D. Crittenden

Subject: DMS 2835 (Tungsten, lead, zinc, copper, silver)
Claremont Mining Corporation
Box 9
Ivanpah, California

The applicant proposes to spend $51,500 to do underground exploration on the property known as the Sycamore mine in the Vanderbilt mining district, San Bernardino County, California.

This property was the subject of a production loan, [illegible] 1102, for lead, zinc and copper, and was examined by the Field Team, who recommended denial because of the lack of measured reserves. At that time, the exploration program had not been established, but the Field Team did recommend exploration in the amount of $25,000, on the basis of the base metal showing at that time.

In view of the fact that the tungsten content of these veins apparently was not known, and that the No. 1 shaft was not accessible at the time of the first Field Team examination, I recommend that they be asked to re-examine the deposit, and to appraise the tungsten values in the old as well as the recently opened workings. It may be advisable to compromise between 50 and 75 percent participation if an exploration contract is consummated.

Max D. Crittenden

MDCrittenden:khs

Copies to: Director's reading file-4212
Branch reading file-4212

	Pb.		Cu.		Zn.				
4.9	0.4	1.96	0.46	2.35	0.4	1.96	0.26	1.27	1.52	7.64
2.7	0.1	.27	.18	.49	0.3	.81	0.04	.11	.10	.27
1.2	0.5	.60	.34	.41	0.2	.24	0.03	.04	3.20	3.84
2.2	0.2	.44	.16	.35	0.1	.22	0.12	.26	0.26	.57
4.0	0.3	1.20	.28	1.12	0.6	2.40	0.03	.12	1.10	4.40
0.9	1.1	.99	.21	.19	0.1	.09	.01	.01	1.60	1.44
15.9		5.46		4.91		5.72		1.81		18.16

2.65' 0.34 0.31 0.36 0.11 1.14

SAGAMORE

AVERAGE 1 LEVEL SAMPLES

WIDTH 2.65' PB. 0.34% Cu. 0.31% Zn. 0.36% WO_3 0.11% Ag. 1.14 oz.

2 LEVEL WITHOUT STOPE SAMPLES

WIDTH 2.94' PB. 1.36% Cu. 0.42% Zn. 0.52% WO_3 0.058% Ag. 2.07 oz

2 LEVEL STOPE SAMPLES

WIDTH 3.125' PB. 3.92% Cu. 1.16% Zn. 2.73% WO_3 0.88% Ag. 4.54 oz

2 LEVEL WITH STOPE SAMPLES

WIDTH 2.96' PB. 1.93% Cu. 0.59% Zn 1.01% WO_3 0.24% Ag. 2.63 oz

AVERAGE ALL SAMPLES

WIDTH 2.89' PB. 1.38% Cu. 0.53% Zn. 0.87% WO_3 0.21% Ag 2.30 oz

198
27
138
396
334
91

496

168 00

334

1330

1200

378

630

4392

2.48
4.2 16
106
35
330
318
3.10
4.15
8470
756
696

	Pb.		Cu.		Zn.		WO3.		Ag.	
5'	0.2	1.00	0.11	0.55	0.1	0.50	0.02	0.10	0.50	2.50
8	1.4	11.20	0.56	4.48	0.2	1.60	0.02	0.16	2.38	19.04
6	1.8	10.80	0.28	1.68	0.1	0.60	0.02	1.12	2.92	17.52
0.7	2.6	1.82	0.73	0.49	1.2	0.84	0.02	0.01	1.22	0.84
1.7	1.3	2.21	0.36	0.61	0.1	0.17	0.02	0.03	2.48	4.22
4.0	2.4	9.60	0.45	1.80	0.5	2.00	0.02	0.08	4.12	16.48
2.0	0.1	.20	0.15	.30	0.2	.40	0.04	0.08	0.92	1.84
3.5	2.3	8.05	1.06	3.71	1.3	4.55	0.18	0.63	2.42	8.47
2.0	1.9	3.80	0.46	.92	1.2	2.40	0.04	0.08	1.96	3.92
0.6	1.6	.96	.35	.21	0.3	.18	0.03	0.02	1.26	.76
2.5	0.7	.50	.18	.45	0.3	.75	0.03	0.06	0.58	1.45
2.7	0.9	2.43	.18	.30	1.4	3.78	0.02	0.05	1.98	5.35
2.4	1.4	3.36	.56	1.34	0.6	1.44	0.03	0.07	1.60	3.84
1.2	0.2	.28	.15	.21	0.2	.28	.02	.03	0.55	.70
1.8	2.0	3.60	.80	1.44	1.9	3.42	02	.04	2.44	4.39
44.1		59.81		18.69		22.94		2.56		91.32
2.94'		1.36		0.42		0.52		0.058		2.07
2.0	7.5	15.00	1.67	3.34	4.0	8.00	0.11	0.22	6.48	12.96
4.0	4.9	19.60	2.04	8.16	3.2	12.80	2.08	8.32	4.96	19.84
3.0	2.0	6.00	0.58	1.74	0.7	2.10	0.29	2.37	2.38	7.14
3.5	2.4	8.40	0.38	1.33	3.2	11.20	0.03	.11	4.80	16.80
12.5		49.00		14.57		34.10		11.02		56.74
3.125		3.92		1.16		2.73		0.88		4.54

Over. 195 cm/th.

	Pb.	Cu.	Zn.	WO3.	Ag. oz.
2.96'	1.93	0.59	1.01	0.24	2.63

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

BCS
1/7/53

January 6, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 7 1953

Memorandum

To: George Selfridge, DMEA

From: Robert W. Geehan

Subject: DMEA 2835 The Claremont Mining Company
Box 9, Ivanpah, California.
Sagamore Mine

It is recommended that this application be referred to the Field Team. If the applicant requests the percentage allowance for tungsten loans, the Field Team should be requested to check the actual tungsten values as it appears to be a lead-zinc deposit.

Robert W. Geehan
Robert W. Geehan

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

400

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 1953

Office of
Executive Officer
DMEA Field Team
Region III

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

DME 12
2835

December 29, 1952

Memorandum

To: Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for Exploration Loan - Tungsten, Lead, Zinc, Cooper and Silver, Claremont Mining Company, Sagamore Mine, Ivanpah, San Bernardino County, California

Attached are three sets of loan application MF 103 forms received in this office from Mr. H. B. Hollingsworth, Secretary, Claremont Mining Company, Ivanpah, California, on December 22, 1952. Attached also is the one copy sent to us of a contract agreement between Julia Willits Brown and Charles L. Workman for purchase of mining property. Only one copy of the East Section and the West Section of the Sagamore Mine was submitted with the application. These copies are included in the material being sent to you. We have made a drawing of each section for our use. Three copies of Mr. Hollingsworth's letter of transmittal, dated December 17, 1952, also are attached.

We are retaining the fourth copy of the MF 103 forms and attachment in this office for our use. Kindly let us have the docket number of this application at an early date.

H. C. MILLER

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

Attachments

Copy to: E. H. Bailey, USGS

HCMiller:mpp
Files
Chron

JAN - 6 RECD

C O P Y

Ivanpah California

Box 9

December 17, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 7 1953

Mr. H. C. Miller, Executive Officer
D.M.E.A. Field Team, Region III
1012 Flood Bldg.
870 Market Street
San Francisco 2, California

Dear Sir:-

We are submitting for your consideration an application for an exploration loan to be used to explore and develop the Sagamore Mine near Ivanpah California.

This property hasbeen under lease and option to the Claremont Mining Co. since March of 1951. During that time we have cleaned out and retimbered the No. 2 tunnel to 700 feet.

We have rehabilitated the Number 1 shaft to the bottom level 150 feet, where we have cut the veim and are drifting east on four feet of ore carrying lead-silver -zinc-cooper and tungsten. (the tungsten in the form of Hubnerite)

It is our desire to develop enough ore to justify the instalation of a mill of the floation type to recover the metals as a separate product.

Last year we applied for a production loan but it was denied because of insufficient measured ore reserves. At the time the mine was examined, Number 1 shaft was full of water and not accessible.

The company is prepared to install the necessary mill if enough ore is developed to justify same. All of the assays show some tungsten and some ore shoots on the number 2 level assay very high in WO_3.

Since we intend to continue on with mining on the number 3 level and since we must pump water every day or so we naturally are anxious to secure the loan as soon aspossible that we may extend our planned development work.

Can you give me some idea as to when the mine can be examined by your Engineers?

I shall appreciate any information that you can give me.

Very truly yours,

/s/ H. B. Hollingsworth

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

JAN - 6 RECD

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 1953

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-2835
Metal or Mineral
Date Received 1/2/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: The Claremont Mining Company
Box 9,
Ivanpah, California.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
See attached sheets.

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will explore
Tungsten, Lead, Zinc, copper and silver

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 18 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[x] Money [x] Use of equipment owned by you [x] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated _____, 195__

CLAREMONT MINING COMPANY
(Applicant)

By Harry B. Hallingquist

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Form MF-103

THE CLAREMONT MINING COMPANY
BOX 9, IVANPAH, CALIFORNIA.

JAN - 6 RECD

1. Name of Applicant

1 (a). The Claremont Mining Company
Box 9,
Ivanpah, California.

1.(b). Corporation (State of California)

1.(c). President: Charles L. Workman, 421 West 8th St., Claremont, California.

Vice-Pres: E. M. Stepp, 1509 Mt Royal Blvd, Glenshaw, Pa.

Secretary: Harry B. Hollingsworth, 1496 East Grand, Pomona, California.

Treasurer: Ray Sanders, 336 West 2nd st, Claremont, California.

3. Applicants Property Rights

3.(a). The land on which the exploration work will be performed and which will benefit directly or inderictly by the proposed work consists of seven patented mining claims and five unpatented mining claims located in the Vanderbilt Mining District, San Bernardino County, California.

Patented Claims

Name	Mineral	Survey Number 4277-May.9.1904
Alpha 1		
" 2		
" 3		
" 4		
" 5		
" 6		
" 7		

Unpatented Claims

Name	Location notice recorded San Bernardino, California. Quartz Lode Locations	
	Book	Page
Pauline	307	35-6-27-49
Beta 1	317	250-2-13-51
" 2		
" 3		
" 4		
" 5		

3.(b). The Property is known as the Sagamore Mine.

3.(c). The patented claims listed above are held by the Claremont Mining Company in accordance with a lease purchase contract, copy of which is submitted with this application.

The unpatented claims are held by location entirely by the Claremont Mining Company. (Map showing claims is attached.)

3(d). Lease purchase contract is attached.

3(e). There are no other liens.

3(f). See list of unpatented claims.

4. Physical Description.

The work in the Sagamore Mine and on Alpha Claims consists of the following:

Eight tunnels of which only three are in the immediate area in which the exploration work should be done. Of these three tunnels No. 1 and No. 2 are on the western side of the canyon and No. 3 is on the eastern side of the canyon. They are all on the same vein, which varies from two to eight feet in width.

The No. 1 tunnel is some 600 feet in length but only some 350 feet are accessible.

The No. 2 tunnel is 50 ft lower than the No. 1 tunnel and is some 1100 feet in length, of which only 700 feet are accessible.

The No. 3 tunnel is 605 feet in length and is accessible to the face.

Near the portal of Tunnel No. 1 is located No. 1 shaft, the collar of which is at the elevation of No. 1 Tunnel. This shaft is 150 feet deep. One hundred feet below the No. 2 tunnel the 100-foot level has been opened off the shaft to explore in the direction of No. 3 tunnel and to connect to No. 2 shaft which is located near the portal of that tunnel. No. 2 shaft has a depth of 50 feet and is in good condition, having been sunk in the quartz vein which contains fair values in lead, zinc, copper and silver. Much of the vein was mined from the No. 1 Tunnel to the surface and three seperate ore shoots have been completely or partially mined from the No. 2 level to the No. 1 level. There is one stope in No. 3 which was mined some 25 feet above that level.

Of the other tunnels on the claims, two are on the same vein structure as Tunnels No. 1, 2 and 3 and the others are on parallel vein structures.

The 100-foot level on which exploration work will be performed is accessible for inspection.

The No. 1 Shaft is equipped with a gasoline driven hoist, sinking bucket, air and water lines, pump column and manway. The bucket dumps into a bin from which the waste is drawn off in one ton cars to be dumped. If the program is approved it may be more ecenomical because of a limited area in which to dump the waste to remove it by truck. At present the water that is being encountered on the 100-foot level is being pumped by a Deming piston type pump equipped with a 1½ H.P. Electric Motor.

The No. 2 Tunnel is open to the caved area 700 feet from the portal and is equipped with rail and air ~~in~~ pipe for most of this distance.

There are five buildings on the property which can serve as living and boarding quarters for the crew, and two buildings at the mine which can serve for shops and storage. (All are in need of rehabilitation.)

4(b). Apparently a rather large production of ore was extracted from the upper or No. 1 Tunnel prior to 1910, of which there is no record. The only production on record consists of the following:-

Year	Tons	%Pb	%Zn	%Cu	Ox.Ag.
1943	169.83	14.9	9.50	4.00	12.79
1951	20.00	16.40	6.50	4.05	15.60
1951	36.00	13.60	5.50	3.65	13.40

The last two shipments were made by this company from ore mined from an ore shoot above the No. 2 Tunnel.

There is no current production and the ore reserves are limited and in part inaccessible.

4(c). Geological Features of the Property.

The Sagamore Mine proper is on the west side of Sagamore Canyon. There are serval other mines within a radius of three miles such as the Copper Queen and the Giant Ledge which are not in production. The country rock is schist and limestone. There are servalroughly parallel fissure veins, dipping from 60 to 90 degrees, cutting thru the claims of this company. The main vein on which the work will be done is a vertical quartz filled vein from 2 feet to 8 feet in width containing values in tungsten, lead, zinc, copper and silver. Attached is a section of the mine showing the proposed exploration work in relation to the mine workings.

4(d). The mine is accessible by car. It is located in the New York Mountains, some 14 miles southwest of Ivanpah,California, and some 4 miles off the county road. Ivanpah is the nearest shipping point on the Union Pacific Railroad. The mine is approximately 82 miles from Las Vegas,Nevada and 75 miles from Needles,Calif., the nearest supply points of importance.

4(e). The following items are available to the extent indicated.

Manpower	Available
Materials	Available in Las Vegas,Nev.
Supplies	" " " " "
Equipment	" " " " "
Water	Domestic Well
Power	No available electric power.

5. Tungsten, Lead Zinc, Copper and Silver.

5(b). Drift east on the 100-foot level from the present face of the east drift, to explore for the downward extension of the ore shoot in No. 2 Shaft and in the stope that was worked in No. 3 Tunnel, a total distance of 500 feet.
Raise to No. 2 shaft.
Rehabilitate the west drift on the 100-foot level for a distance of 100 feet and then drive an additional 600 feet to explore the downward extension of the three major ore shoots.

Raise 100 feet to explore the principal ore shoots and to connect to No. 2 shaft.

5(c). The work will start within 30 days and be completed in 18 months.

5(d). Harry Hollingsworth who is in charge of the work has had many years of practical experience in mining. Provisions should be made for part time employment of an engineer and geologist for mapping and engineering work.

6. Estimate of Costs.

6(a). Drifting costs. Advance 5 feet per shift.

Labor costs per shift.

1 hoistman and compressorman	$ 15.00
1 toplander and truckdriver	13.20
4 miners @ 14.20	56.80
1 supervisor	20.00
	$105.00
Insurance & Payroll taxes 15%	15.75
	$120.75 / 5 $ 24.15

very high

6(b).

Supplies	Cost per foot
Explosives	$ 2.50
Drill steel	1.00
Drill bits	.50
Drill repairs	.90
Hose	.30
Pipe	1.70
Rail	1.00
Lubricants	.30
Small tools & Misc.	.50
Equipment rental	3.20
Fuel	1.50
	13.40

	13.40
Total cost per foot for untimbered sections	$37.55
Additional labor, timber and supplies for timbering	7.25
Total cost per foot for timbered drifts	$44.80

500 feet of drifting will be timbered.

Raising costs.

Estimated unit cost per foot for labor, supervision and consultants	$ 18.00
Estimated unit costs for supplies, equipment rental, etc	13.00
Total	$ 31.00

6(d). Operating equipment owned by operator.

Item	Appros. Value	Monthly depreciation allowance.
Two Mine cars @ $100.00	$ 200.00	
1 stoper	250.00	
2 jackhammers	600.00	
4 sets of drill steel	50.00	
Samll tools	150.00	
1 truck 1½ tons	1000.00	
1 generator (camp lights)	200.00	
1 generator for electric pump	1000.00	
1 electric pump	200.00	
500 feet 2" pipe	200.00	
500 feet 1" pipe	250.00	
	$ 4000.00 / 60	$ 66.66

Operating equipment to be rented.

1 220 cu. ft. compressor

1 gasoline hoist

Total rental $400.00 per month.

6(e). Rehabilitate camp buildings to serve as workmens quarters. $800.00

rehabliitate mine building to serve as shop 300.00

$1100.00

6(f) None.

6(g). Drill repairs (included in unit cost) $.90 per foot

Equipment repairs	$ 400.00
Sampling and assaying	250.00
Engineering and accounting	900.00
	$1550.00

6(h). Road repairs $ 400.00

7(a) Yes.

7(b). With money, equipment and services. The stockholders of this corporation guarantee to provide the money to pay the proportionate part of the costs of the project.

Summary of estimated costs.

	$
Rehabilitate west drift 100 ft. @ 30.00	3000.00
Drift to east and west 950 ft @ 37.55	35672.50
500 feet of timbering @ 7.25	3625.00
Raise to No. 2 tunnel and to bottom of No. 2 200 feet @ 31.00	6200.00
Rehabilitations	1100.00
Miscellaneous	1550.00
Contingencies	400.00
Total cost of project	$ 51547.50

C O P Y

Ivanpah California

December 26, 1952

Mr H. C. Miller, Executive Officer

D.M.E.A. Field Team, Region III

1012 Flood Bldg.

870 Market Street

San Francisco California

Dear Sir,

I mailed to you, on December 17th, an application for an Exploration Loan on the Sagamore Mine. Since then I have received the enclosed assay (from Smith Emory Co.) of a sample of ore taken from the vein at the 100ft (or bottom) level. We took this sample from the first round where we cut the vein as we drifted east on the West section.

The vein here is four feet in width and on the surface does not show any mineral.

We would like to add this information to the data submitted on December 17th.

Yours very truly

/s/ H. B. Hollingsworth

C O P Y

SMITH-EMERY COMPANY
920 Santee Street
Los Angeles

Sample Ore

Received 12/12/52.

Submitted by Claremont Mining Company
Ivanpah,
California.

Date December 18, 1952.

		PER TON OF 2000 LBS.				COOPER	LEAD	ZINC
		GOLD		SILVER				
NUMBER	MARK	OUNCES	VALUE	OUNCES	VALUE	PER CENT	PER CENT	PER CENT
362224		Trace	-	2.00	$1.81	0.10%	2.60%	2.35%

REPORT OF CHEMICAL DETERMINATION:

Tungsten Trioxide (WO_3) ------- 0.82%

Respectfully submitted,

/s/ Smith-Emery Co.
Assayers and Metallurgists
EOS

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

January 6, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned Docket Number to an application recently received from Region III.

DMEA-2835 The Claremont Mining Company

ROBERT E. ADAMS
Robert E. Adams, Chief
Operation's Control and
Statistics Division

January 6, 1953

Mr. Harry B. Hollingsworth
The Claremont Mining Company
Box 9
Ivanpah, California

Subject: DMEA-2835
Re:Exploration Assistance
Saganoro Mine

My dear Mr. Hollingsworth:

The receipt of your application dated

for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2835 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2835 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operation's Control and
Statistics Division

25451

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 1953

Office of
Executive Officer
DMEA Field Team
Region III

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

December 29, 1952

Memorandum

To: Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for Exploration Loan - Tungsten, Lead, Zinc, Cooper and Silver, Claremont Mining Company, Sagamore Mine, Ivanpah, San Bernardino County, California

Attached are three sets of loan application MF 103 forms received in this office from Mr. H. B. Hollingsworth, Secretary, Claremont Mining Company, Ivanpah, California, on December 22, 1952. Attached also is the one copy sent to us of a contract agreement between Julia Willits Brown and Charles L. Workman for purchase of mining property. Only one copy of the East Section and the West Section of the Sagamore Mine was submitted with the application. These copies are included in the material being sent to you. We have made a drawing of each section for our use. Three copies of Mr. Hollingsworth's letter of transmittal, dated December 17, 1952, also are attached.

We are retaining the fourth copy of the MF 103 forms and attachment in this office for our use. Kindly let us have the docket number of this application at an early date.

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

Attachments

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

Office of
Executive Officer
DMEA Field Team
Region III

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

December 23, 1952

Mr. H. E. Hollingsworth, Secretary
Claremont Mining Company
Box 9
Ivanpah, California

Re: Application for Exploration Loan
(Tungsten, etc)
San Bernardino County, Calif.

Dear Mr. Hollingsworth:

We acknowledge your letter of December 17 together with four sets of MF 103 Loan Application Forms, one copy of a Contract Agreement, dated February 20, 1951, between Julia Willits Brown and Charles L. Workman for purchase of mining property, and two copies of an east section of the Sagamore Mine, Alpha No. 2 Claim.

These documents are being sent to the Defense Minerals Exploration Administration in Washington, D. C., for documentation and review. As soon as we are requested by the Washington office to make an examination of your property we will get in touch with you again, letting you know when our engineers or geologists will make the examination.

Thank you kindly for bringing your property to our attention.

Sincerely yours,

H. C. MILLER

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

HCMiller:mpp

Copy to DMEA, Washington, D. C.
E. H. Bailey, USGS
A. C. Johnson, Reno

Files
Chron

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

Office of
Executive Officer
DMEA Field Team
Region III

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

December 23, 1952

Mr. N. B. Hollingsworth, Secretary
Claremont Mining Company
Box 9
Ivanpah, California

Re: Application for Exploration Loan
(Tungsten, etc)
San Bernardino County, Calif.

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Sincerely yours,

H. C. MILLER

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

HCMiller:mpp

Copy to DMEA, Washington, D. C.
E. H. Bailey, USGS
A. C. Johnson, Reno

Files
Chron

C O P Y

Ivanpah California

Box 9

December 17, 1952

Mr. H. C. Miller, Executive Officer
D.M.E.A. Field Team, Region III
1012 Flood Bldg.
870 Market Street
San Francisco 2, California

Dear Sir:-

We are submitting for your consideration an application for an exploration loan to be used to explore and develop the Sagamore Mine near Ivanpah California.

This property hasbeen under lease and option to the Claremont Mining Co. since March of 1951. During that time we have cleaned out and retimbered the No. 2 tunnel to 700 feet.

We have rehabilitated the Number 1 shaft to the bottom level 150 feet, where we have cut the vein and are drifting east on four feet of ore carrying lead-silver -zinc-cooper and tungsten. (the tungsten in the form of Hubnerite)

It is our desire to develop enough ore to justify the instalation of a mill of the floation type to recover the metals as a separate product.

Last year we applied for a production loan but it was denied because of insufficient measured ore reserves. At the time the mine was examined, Number 1 shaft was full of water and not accessible.

The company is prepared to install the necessary mill if enough ore is developed to justify same. All of the assays show some tungsten and some ore shoots on the number 2 level assay very high in WO_3.

Since we intend to continue on with mining on the number 3 level and since we must pump water every day or so we naturally are anxious to secure the loan as soon as possible that we may extend our planned development work.

Can you give me some idea as to when the mine can be examined by your Engineers?

I shall appreciate any information that you can give me.

Very truly yours,

/s/ H. B. Hollingsworth

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 2 1953

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. ADMEA-2835
Metal or Mineral
Date Received 1/2/53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

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2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

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See attached sheets.

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

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4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

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(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Tungsten, Lead, Zinc, copper and silver

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

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(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

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(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [X] Use of equipment owned by you [X] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated _____, 195__

CLAREMONT MINING COMPANY
(Applicant)

By Harry B. Hollingsworth

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

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Form MF-103

THE CLAREMONT MINING COMPANY
BOX 9, IVANPAH, CALIFORNIA.

L. Name of Applicant

1 (a). The Claremont Mining Company
Box 9,
Ivanpah, California.

1.(b). Corporation (State of California)

L.(c). President: Charles L. Workman, 421 West 8th St., Claremont, California.

Vice-Pres: E. M. Stepp, 1509 Mt Royal Blvd, Glenshaw, Pa.

Secretary: Harry B. Hollingsworth, 1496 East Grand, Pomona, California.

Treasurer: Ray Sanders, 336 West 2nd st, Claremont, California.

3. Applicants Property Rights

3.(a). The land on which the exploration work will be performed and which will benefit directly or inderictly by the proposed work consists of seven patented mining claims and five unpatented mining claims located in the Vanderbilt Mining District, San Bernardino County, California.

Patented Claims

Name	Mineral	Survey Number 4277-May, 9, 1904
Alpha 1		
" 2		
" 3		
" 4		
" 5		
" 6		
" 7		

Unpatented Claims

Name	Location notice recorded San Bernardino, California. Quartz Lode Locations	
	Book	Page
Pauline	307	35-6-27-49
Beta 1	317	250-2-13-51
" 2		
" 3		
" 4		
" 5		

3.(b). The Property is known as the Sagamore Mine.

3.(c). The patented claims listed above are held by the Claremont Mining Company in accordance with a lease purchase contract, copy of which is submitted with this application.

The unpatented claims are held by location entirely by the Claremont Mining Company. (Map showing claims is attached.)

3(d). Lease purchase contract is attached.

3(e). There are no other liens.

3(f). See list of unpatented claims.

4. Physical Description.

The work in the Sagamore Mine and on Alpha Claims consists of the following:

Eight tunnels of which only three are in the immediate area in which the exploration work should be done. Of these three tunnels No. 1 and No. 2 are on the western side of the canyon and No. 3 is on the eastern side of the canyon. They are all on the same vein, which varies from two to eight feet in width.

The No. 1 tunnel is some 600 feet in length but only some 350 feet are accessible.

The No. 2 tunnel is 50 ft lower than the No. 1 tunnel and is some 1100 feet in length, of which only 700 feet are accessible.

The No. 3 tunnel is 605 feet in length and is accessible to the face.

Near the portal of Tunnel No. 1 is located No. 1 shaft, the collar of which is at the elevation of No. 1 Tunnel. This shaft is 150 feet deep. One hundred feet below the No. 2 tunnel the 100-foot level has been opened off the shaft to explore in the direction of No. 3 tunnel and to connect to No. 2 shaft which is located near the portal of that tunnel. No. 2 shaft has a depth of 50 feet and is in good condition, having been sunk in the quartz vein which contains fair values in lead, zinc, copper and silver. Much of the vein was mined from the No. 1 Tunnel to the surface and three seperate ore shoots have been completely or partially mined from the No. 2 level to the No. 1 level. There is one stope in No. 3 which was mined some 25 feet above that level.

Of the other tunnels on the claims, two are on the same vein structure as Tunnels No. 1, 2 and 3 and the others are on parallel vein structures.

The 100-foot level on which exploration work will be performed is accessible for inspection.

The No. 1 Shaft is equipped with a gasoline driven hoist, sinking bucket, air and water lines, pump column and manway. The bucket dumps into a bin from which the waste is drawn off in one ton cars to be dumped. If the program is approved it may be more ecenomical because of a limited area in which to dump the waste to remove it by truck. At present the water that is being encountered on the 100-foot level is being pumped by a Deming piston type pump equipped with a 1½ H.P. Electric Motor.

The No. 1 Tunnel is open to the caved area 700 feet from the portal and is equipped with rail and air pipe for most of this distance.

There are five buildings on the property which can serve as living and boarding quarters for the crew, and two buildings at the mine which can serve for shops and storage. (All are in need of rehabilitation.)

4(b). Apparently a rather large production of ore was extracted from the upper or No. 1 Tunnel prior to 1910, of which there is no record. The only production on record consists of the following:-

Year	Tons	%Pb	%Zn	%Cu	Ox.Ag.
1943	169.83	14.9	9.50	4.00	12.79
1951	20.00	16.40	6.50	4.05	15.60
1951	36.00	13.60	5.50	3.65	13.40

The last two shipments were made by this company from ore mined from an ore shoot above the No. 2 Tunnel.

There is no current production and the ore reserves are limited and in part inaccessible.

4(c). Geological Features of the Property.

The Sagamore Mine proper is on the west side of Sagamore Canyon. There are serval other mines within a radius of three miles such as the Copper Queen and the Giant Ledge which are not in production. The country rock is schist and limestone. There are servalroughly parallel fissure veins, dipping from 60 to 90 degrees, cutting thru the claims of this company. The main vein on which the work will be done is a vertical quartz filled vein from 2 feet to 8 feet in width containing values in tungsten, lead, zinc, copper and silver. Attached is a section of the mine showing the proposed exploration work in relation to the mine workings.

4(d). The mine is accessible by car. It is located in the New York Mountains, some 14 miles southwest of Ivanpah,California, and some 4 miles off the county road. Ivanpah is the nearest shipping point on the Union Pacific Railroad. The mine is approximately 82 miles from Las Vegas,Nevada and 75 miles from Needles,Calif., the nearest supply points of importance.

4(e). The following items are available to the extent indicated.

Manpower	Available
Materials	Available in Las Vegas,Nev.
Supplies	" " " " "
Equipment	" " " " "
Water	Domestic Well
Power	No available electric power.

5. Tungsten, Lead Zinc, Copper and Silver.

5(b). Drift east on the 100-foot level from the present face of the east drift, to explore for the downward extension of the ore shoot in No. 2 Shaft and in the stope that was worked in No. 3 Tunnel, a total distance of 500 feet. Raise to No. 2 shaft.
Rehabilitate the west drift on the 100-foot level for a distance of 100 feet and then drive an additional 600 feet to explore the downward extension of the three major ore shoots.

Raise 100 feet to explore the principal ore shoots and to connect to No. 2 shaft.

5(c). The work will start within 30 days and be completed in 18 months.

5(d). Harry Hollingsworth who is in charge of the work has had many years of practical experience in mining. Provisions should be made for part time employment of an engineer and geologist for mapping and engineering work.

6. Estimate of Costs.

6(b). Drifting costs. Advance 5 feet per shift.

Labor costs per shift.

1 hoistman and compressorman	$ 15.00		
1 toplander and truckdriver	13.20		
4 miners @ 14.20	56.80		
1 supervisor	20.00		
	$105.00		
Insurance & Payroll taxes 15%	15.75		
	$120.75	/ 5	$ 24.15

6(c).

Supplies	Cost per foot		
Explosives	$ 2.50		
Drill steel	1.00		
Drill bits	.50		
Drill repairs	.90		
Hose	.30		
Pipe	1.70		
Rail	1.00		
Lubricants	.30		
Small tools & Misc.	.50		
Equipment rental	3.20		
Fuel	1.50		
	13.40		13.40
Total cost per foot for untimbered sections			$37.55
Additional labor, timber and supplies for timbering			7.25
Total cost per foot for timbered drifts			$44.80

500 feet of drifting will be timbered.

Raising costs.

Estimated unit cost per foot for labor, supervision and consultants	$ 18.00
Estimated unit costs for supplies, equipment rental, etc	13.00
Total	$ 31.00

6(d). Operating equipment owned by operator.

Item	Appros. Value		Monthly depreciation allowance.
Two Mine cars @ $100.00	$ 200.00		
1 stoper	250.00		
2 jackhammers	600.00		
4 sets of drill steel	50.00		
Samll tools	150.00		
1 truck 1½ tons	1000.00		
1 generator (camp lights)	200.00		
1 generator for electric pump	1000.00		
1 electric pump	200.00		
500 feet 2" pipe	200.00		
500 feet 1" pipe	250.00		
	$ 4000.00	/ 60	$ 66.66

Operating equipment to be rented.

1 220 cu. ft. compressor

1 gasoline hoist

Total rental $400.00 per month.

6(e). Rehabilitate camp buildings to serve as workmens quarters. $800.00

rehabliitate mine building to serve as shop 300.00

$1100.00

6(f) None.

6(g). Drill repairs (included in unit cost) $.90 per foot

Equipment repairs	$ 400.00
Sampling and assaying	250.00
Engineering and accounting	900.00
	$1550.00

6(h). Road repairs $ 400.00

7(a) Yes.

7(b). With money, equipment and services. The stockholders of this corporation guarantee to provide the money to pay the proportionate part of the costs of the project.

Summary of estimated costs.

	$
Rehabilitate west drift 100 ft. @ 30.00	3000.00
Drift to east and west 950 ft @ 37.55	35672.50
500 feet of timbering @ 7.25	3625.00
Raise to No. 2 tunnel and to bottom of No. 2 200 feet @ 31.00	6200.00
Rehabilitations	1100.00
Miscellaneous	1550.00
Contingencies	400.00
Total cost of project	$ 51547.50

C
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P
Y

C O N T R A C T

FOR PURCHASE OF MINING PROPERTY

THIS AGREEMENT, made and entered into this 20th day of February, 1951, by and between JULIA WILLITS BROWN, a widow, of Philadelphia, Pennsylvania, the party of the First Part, and CHARLES L. WORKMAN, the party of the Second Part,

W I T N E S S E T H:

WHEREAS, said Julia Willits Brown is the owner and entitled to possession of those certain mining claims and property hereinafter described; and

WHEREAS, said Charles L. Workman, Second Party, is desirous of purchasing said mining claims for the consideration and subject to the conditions hereinafter specified:

NOW, THEREFORE, for and in consideration of the mutual covenants, conditions, and provisions hereinafter contained, it is hereby agreed,

That said First Party, for the considerations hereinafter mentioned, hereby agrees to sell and convey unto said Second Party, or his assigns, the following described lands, mining claims and mining rights, known as the Sagamore Mine, situate in the County of San Bernardino, State of California, consisting of seven mining claims and named Alpha No. 1 to 7, inclusive, all patented and recorded in the office of the County Recorder of San Bernardino, California, being in Sections 32 and 33, Township 14 North, Range 16 East, San Bernardino Base and Meridian, and being Mineral Lot No. 4277, more particularly described in that certain document recorded in the office of the County Recorder of San Bernardino County, California, on June 30, 1906, in

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FIRST NATIONAL BLDG.
POMONA, CALIFORNIA

Book "H", page 41, said San Bernardino County Records;

Included in said group of mining claims there is a water claim known as Alpha No. 8 on which there are delinquent taxes due; said Second Party is privileged to redeem said Alpha No. 8 claim as his sole responsibility, in which event the same is included in this Contract without any additional or further consideration.

That the purchase price of said claims and said premises payable to the First Party shall be One Hundred Thousand Dollars ($100,000.00), lawful money of the United States, payable at the time and in the manner hereinafter specified:

It is agreed and understood that said Second Party or his assignee will pay to First Party a royalty on ores, concentrates or other products removed, sold or shipped from said premises which said royalty shall be computed as follows:

10% of the net value of such ores, concentrates or products so removed, sold or shipped from said premises F.O.B. railroad shipping point.

All such royalty payments shall be made directly to L. D. Godshall or such other party as may be designated in writing either by First Party or said L. D. Godshall.

Said Second Party agrees to pay to said First Party to be applied on account of said purchase price of said property a minimum monthly payment of $100.00 a month, commencing on March 1, 1951, and on the first day of each and every month thereafter for any of said months that no royalty payments whatever are made to First Party as herein provided; if, however, the royalty payments during any said month shall equal or exceed $100.00 for the particular month, then and in such event such monthly payment of $100.00 for the particular month is not required to be made;

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or if the royalty payment for any one particular month shall be less than $100.00, then and in such event said Second Party or his assignee will pay the difference between said sum of $100.00 and said lesser royalty payment. Said purchase price of $100,000.00 shall be payable as follows: $50,000.00 thereof in installments or otherwise as hereinabove provided, on or before five years after date hereof; the balance thereof, to-wit, $50,000.00, payable in the same installments or otherwise as herein provided, within five years thereafter.

Upon payment of said initial sum of $100.00, as aforesaid, on or before March 1, 1951, the First Party agrees to place in escrow with Dr. L. D. Godshall or any other such person as may be mutually agreed upon by the parties, Quitclaim deed conveying all of First Party's interest and estate in said property to the Second Party, or his assignee or assignees, together with a copy of this agreement, with instructions to said Dr. L. D. Godshall or other person who may be desingated, as aforesaid, that upon a full compliance with all of the terms and conditions of this agreement, the said Dr. L. D. Godshall or other person so designated is empowered, directed and instructed to deliver said Deed to the Second Party or his assigns, but, in the event of forfeiture of this agreement as hereinafter provided, the said L. D. Godshall, or such other person, as escrow agent, shall be instructed to deliver all papers or documents as placed in escrow to the First Party, together with a Quitclaim Deed to the premises, to be executed by the Second Party in favor of the First Party on the date hereof which shall be delivered to the escrow agent.

It is understood and agreed that the Second Party or his assignee shall be entitled to go upon the property, immediately upon the payment of the First $100.00 or more, for active development and mining operations thereon and to operate the same in any manner he may see fit, looking

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only to the preservation of the premises as a workable mine during the life of this agreement.

It is also understood and agreed that in the event of the forfeiture of this agreement as hereinafter mentioned, all improvements made in or about such property by the Second Party or his assignee and affixed to the realty of the same, shall remain the property of the First Party; but all property of a personal nature such as machinery, tools or equipment shall be removed therefrom by the Second Party or his assignee within sixty days of such forfeiture.

Said Second Party or his assignee further agrees to pay all State and County taxes, including bullion taxes on smelter returns, if any, that may be levied or assessed against said property after the date of this agreement.

Said Second Party or his assignee further agrees to keep said premises free and clear of any and all encumbrances of any nature whatsoever during the life of this agreement and to save said First Party harmless and free from any liability or responsibility for any damage or injuries to persons or property that might occur in the operation of said mine premises.

Said Second Party or his assignee further agrees to at all times during the life of this agreement post and keep posted in a conspicuous place or places on said mining premises a notice in writing reading to the effect that the work of developing and mining on said premises, and any improvements thereon, are being done wholly and solely at the expense of said Second Party, and stating that said First Party will not be responsible for any indebtedness for labor, material, or at all, created or incurred by said Second Party or his assignee in connection with the work and operation of said property; a copy of said posted notice to be recorded by said

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Second Party, or his assignee, as provided by law.

Said Second Party, or his assignee, further agrees to comply with all Federal, State and local laws or safety rules and regulations appertaining to mining and the employment of labor and industrial compensation thereon during the life ofthis agreement. All operations hereunder shall be in a good, careful, workmanlike and minelike manner. Second Party shall, during the existence of this agreement, maintain, at his own expense, public liability and property insurance, with a reliable insurance company, with minimum respective amounts of $5,000.00 and $1,000.00. Said Second Party may, at any time, terminate this agreement or abandon said property by giving First Party notice to that effect. Any such termination shall not release him of accounting for any of the obligations hereunder at the date thereof.

It is understood and agreed between the parties hereto that each of the above mentioned payments will in all events be paid on o r before the due date thereof unless this agreement is terminated or forfeited by either party hereto under the terms hereof prior to said due date.

It is understood and agreed that all royalty payments and monthly payments as herein provided shall be considered as a partial payment on said purchase price.

First Party, or her representative, shall, at all reasonable times, have access to said property and the workings thereof for inspection purposes.

It is further understood and agreed that all written notices provided for in this agreement to be served upon the respective parties hereto shall be deposited in the United States Mail, postage prepaid, and addressed to First Party, c/o L. D. Godshall, 722 South Oxford Avenue, Los Angeles 5, California, or to Second Party, o r his assignee, c/o

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Charles L. Workman, Claremont, California.

Time is of the essence of this agreement and should Second Party, or his assignee or assignees, fail, neglect, or refuse to fulfill or comply with any of the terms, covenants or conditions in this agreement provided for and for a period of thirty days after written notice of said default being given to Second Party by First Party by mailing to the above address as herein provided for, this contract shall become null and void and of no further force and effect and all payments made herunder shall be retained by the First Party as liquidated damages for the use and occupancy of said premises and as a consideration for which this agreement is executed and said Second Party, o r his assignee or assignees, shall forthwith thereupon deliver up to the First Party the peaceable possession of said premises and every p art thereof.

This agreement shall extend to, bind and be enforceable against or inure to the benefit of the heirs, executors, administrators and assigns of the respective parties hereto and Second Party may lease any part of said property or assign this agr eement, subject to all of the provisions and conditions herein contained, provided, however, any assignee or lessee shall first be required to execute and deliver in escrow to said L. D. God shall or such other party who may be designated in his place, a Quitclaim Deed to be held subject to the same conditions as are applicable to the Quitclaim Deed herein required to be executed by Second Party.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and signatures the day and year in this agr eement first written.

s/ Julia Willits Brown
Julia Willits Brown

First Party

s/ Charles L. Workman
Charles L. Workman

Second Party

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ATTORNEYS AT LAW
FIRST NATIONAL BLDG.
POMONA, CALIFORNIA

STATE OF CALIFORNIA)
) ss
County of Los Angeles)

On this 8th day of February, 1951, before me, the undersigned Notary Public in and for the County and State aforesaid, personally appeared CHARLES L. WORKMAN, known to me to be one of the persons named in and who executed the within and foregoing instrument and he acknowledged to me that he executed the same.

WITNESS my hand and official seal.

s/ H. L. Maynard, Jr.
Notary Public in and for the County of
Los Angeles, State of California

(SEAL)

STATE OF PENNSYLVANIA)
) ss.
County of Philadelphia)

On this 20th day of February, 1951, before me the undersigned Notary Public in and for the County and State aforesaid, personally appeared JULIA WILLITS BROWN, known to me to be one of the persons named in and who executed the within and foregoing instrument and she acknowledged to me that she executed the same.

WITNESS my hand and official seal.

s/ Harry J. Hammer
Notary Public in and for the County of
Philadelphia, State of Pennsylvania,

(SEAL)

Photostated
Compared
233 Indexed
Recorded request of Chas. Workman
Jun 9 11 07 a.m. "52
Book 2964, Page 190 County
Official Records San Bernardino, Calif.
Ted R. Carpenter, Recorder
Hazel Gabler, Dep.

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SHELTON & O'CONNOR
ATTORNEYS AT LAW
FIRST NATIONAL BLDG.
POMONA, CALIFORNIA

Ivanpah California

December 26, 1952

Mr H. C Miller, Executive Officer

D.M.C.A. Field Team, Region 111

1012 Flood Bldg.

870 Market Street

San Francisco California

Dear Sir,

I mailed to you, on December 17th, an application for an Exploration Loan on the Sagamore Mine. Since then I have received the enclosed assay (from Smith Emory Co.) of a sample of ore taken from the vein at the 100ft (or bottom) level. We took this sample from the first round where we cut the vein as we drifted east on the West section.

The vein here is four feet in width and on the surface does not show any mineral.

We would like to add this information to the data submitted on December 17th.

Yours very truly

H B Hollingsworth

H.B. Hollingsworth

TRinity 4791

FORM 18

ASSAY REPORT

SMITH-EMERY COMPANY

ASSAYERS AND METALLURGICAL ENGINEERS
920 SANTEE STREET
LOS ANGELES

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AUTHORIZATION FOR PUBLICATION OF OUR REPORTS, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

Sample Ore

Received 12/12/52.

Submitted by Claremont Mining Company
Ivanpah,
California.

Gold, @ $35.00 *per oz.*
Silver, @ $ 0.905 *per oz.*

Date December 18, 1952.

NUMBER	MARK	PER TON OF 2000 LBS.				COPPER	LEAD	ZINC
		GOLD		SILVER				
		OUNCES	VALUE	OUNCES	VALUE	PER CENT	PER CENT	PER CENT
362224		Trace	-	2.00	$1.81	0.10%	2.60%	2.35%

REPORT OF CHEMICAL DETERMINATION:

Tungsten Trioxide (WO_3) ------- 0.82%

Respectfully submitted,

Smith-Emery Co.
ASSAYERS AND METALLURGISTS

EOS

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

[illegible] AM 6:5[illegible]

SAN FRANCISCO, CALIFORNIA

Map 4

OFFICIAL BUSINESS

U. S. Bureau of Mines
1012 Flood Building
870 Market Street
San Francisco 2, Calif.

SAN FRANCISCO CALIF.
DEC 29
630PM
1952
RINCON ANNEX

1¢

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

FIRST CLASS

1 cy each of 2 maps enclosed
1/6/53