DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 996

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This document has been recorded as

EXPLORATION LOAN

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

Routing Slip

To:	SUPPLY DIVISION	Date	AUG [illegible] 1951
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DO NOT DETACH

CONTROLLED DOCUMENT

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 996X

DO NOT DETACH THIS SLIP

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This document has been recorded as

Exploration Loan

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

Routing Slip

To:	Director, Supply Div.	Date	8/14/51
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DO NOT DETACH

CONTROLLED DOCUMENT

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

AUG 24 1951

Memorandum

To: Reports & Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Transmittal of docket material

Re: DMA-996X
Yewell Research Lab.
Cactus Milling Company
Papago Mining District
Pima County, Arizona
Exploration loan
Lead

Certain docket material had been temporarily misplaced when the denial memorandum was transmitted to you a few days ago. This material is transmitted herewith:

3 copies MF-100
3 copies MF-103
3 maps
3 copies of report by C. H. James dated July 30, 1920
3 copies of report by H. R. Ertel dated Dec. 16, 1947
3 copies operating agreement and assignement
1 copy Landlord's Subordination Agreement
1 copy proposed contract.

T. P. Billings by

T. P. Billings, Chief
Lead-Zinc Branch

Approved
Tom Lyon
Tom Lyon, Director
Supply Division

350

FILE COPY
SURNAME:

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

AUG 24 1951

A. E. C

McKnight
O'Leary
Formoe
Johnson

Memorandum

To: Reports & Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Transmittal of docket material

Re: DMA-996X
Yewell Research Lab.
Cactus Milling Company
~~Papago Mining District~~
Pima County, Arizona
Exploration loan
Lead

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3 copies operating agreement and assignement
1 copy Landlord's Subordination Agreement
1 copy proposed contract.

Gunnard Johnson

T. P. Billings, Chief
Lead-Zinc Branch J.P. 8/24

ETMcKnight:emp
G 8-21-51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
Reports & Records
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

Approved:
Tom Lyon

Tom Lyon, Director
Supply Division

AUG 24 1951

Memorandum

To: Reports & Records Unit
Administrative Management Div.

From: Chief, Lead-Zinc Branch

Subject: Transmittal of docket material

Re: [illegible]-9762
Yewell Research Lab.
Cactus Milling Company
Papago Mining District
Pima County, Arizona
Exploration loan
Lead

Certain docket material was temporarily misplaced when the denial memorandum was transmitted to you a few days ago. This material is transmitted herewith:

3 copies SF-100
3 copies SF-103
3 maps
3 copies of report by C. H. Jones dated July 30, 1920
3 copies of report by E. A. Orbel dated Dec. 16, 1947
3 copies operating agreement and assignment
1 copy Landlord's Subordination Agreement
1 copy proposed contract.

Gunnard Johnson

F. F. Billings, Chief
Lead-Zinc Branch

E DeKnight:emp
G 8-21-51
Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
E. T. Deknight [illegible]
R. E. Hate
Reports & Records
Directors r. file [illegible]
Br. r. file [illegible]
Files

Approved: [illegible]

Tom Lyon, Director
Supply Division

FILE COPY
SURNAME:

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

Billings
O'Leary
(For Mike)
McKnight
Schroeder

AUG 1 8 1951

DMA 996

Hon. Ernest W. McFarland
United States Senate
Washington 25, D. C.

My dear Senator McFarland:

This is to acknowledge your letter of August 3 concerning the application of the Cactus Mining Company, Sunshine Mine, Pima County, Arizona, for a loan in the amount of $10,470.

After a thorough investigation Defense Minerals Administration finds that additional expenditures on the property under the proposed project are not justified. The ore body is of small size and very low grade and has been sufficiently developed by old workings to disclose that there is little doubt here that the proposed project would result in failure.

The beneficiation of this low grade ore for a marketable product by a dry process is unproved and we believe does not appear to have much chance of success.

I regret that we are unable to approve this request for a loan to carry out the proposed project and Mr. Burbridge will be notified by letter immediately of the denial of his request.

In case I can be of further assistance to you at any time, please do not hesitate to call on me.

Sincerely yours,

cc 8/16

W. C. SCHROEDER
Acting Administrator

TPBillings'lm
8/10/51

ec: Administrator
Reports and Records
Mote
McKnight
✓ DMA Docket File

L

COPY COPY

UNITED STATES SENATE
Office of the Majority Leader
Washington, D. C.
August 3, 1951

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

RE: DMA-996X
Cactus Mining Co.
Sunshine Mine
"Glory-Hole"
Pima County, Arizona

Dear Dr. Boyd:

Since your letter of July 13, I have received the enclosed communication from Mr. J. S. Burbridge, Tucson, Arizona.

As you will note, the field representative of the DMA has inspected the property and apparently has indicated that an unfavorable report will be submitted for the reason that Mr. Burbridge's milling processes are not of the proper type. Your attention is called to the fact that water in Arizona is at a premium; consequently, the dry process is used.

It is hoped this application will be carefully reviewed, taking into consideration the comments made by my constituent.

Sincerely yours,

/s/ ERNEST W. McFARLAND

Ernest W. McFarland

Enc.

lm

J. S. Burbridge
Cactus milling Co.
Box 966 - Tucson,
July 28, 1951

Senator Ernest W. McFarland
United States Senate
Office of the Majority Leader
Washington, D. C.

Dear Senator McFarland:

In reference to your letter of July 20, in regard to additional assistance.

While I was in the Veterans Hospital in Phoenix, one of the field men for the DMA called on us here at the Sunshine Mine. Mr. R. A. Steinbacher, my partner, showed the field man the property. In looking over the mill we have in operation at the present time, we were told; "It is fine, but the tables should be of the wet type".

The field man told us that he was going to turn the property down, but he would give us credit for 45,000 tons of low grade ore in sight.

I want to call your attention to a SCREEN ANALYSIS & ACCOUNTABILITY of a ton of ore from the Sunshine ore body, this test was made by the Yewell Research Laboratory on the 16th of June, 1950, a copy of this test is filed in our DMA Docket 996X.

We have lots of mines here in Arizona that are idle because of the lack of water to mill with. We all know we are in need of strategic metals for the rearmament, as we have proved here in the field, this new dry process does work.

We trust you will do all in your power to see to it this application is given a complete checking and processing.

Cordially yours,

/s/ J.S. BURBRIDGE

J. S. Burbridge

lm

AUG 15 1951

DMA 996

Hon. Ernest W. McFarland
United States Senate
Washington 25, D. C.

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In case I can be of further assistance to you at any time, please do not hesitate to call on me.

Sincerely yours,

W. C. SCHROEDER

Acting Administrator

TPBillings:lm
8/10/51

cc: Administrator
Reports and Records
Mote
McKnight
DMA Docket File

COPY COPY

UNITED STATES SENATE
Office of the Majority Leader
Washington, D. C.
August 3, 1951

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

RE: DMA-996X
Cactus Mining Co.
Sunshine Mine
"Glory-Hole"
Pima County, Arizona

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It is hoped this application will be carefully reviewed, taking into consideration the comments made by my constituent.

Sincerely yours,

/s/ ERNEST W. McFARLAND

Ernest W. McFarland

Enc.

lm

J. S. Burbridge
Cactus milling Co.
Box 966 - Tucson,
July 28, 1951

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United States Senate
Office of the Majority Leader
Washington, D. C.

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We trust you will do all in your power to see to it this application is given a complete checking and processing.

Cordially yours,

/s/ J.S. BURBRIDGE

J. S. Burbridge

lm

ST W. McFARLAND
ARIZONA

March - Copy Contact
AUG - 7 1951
T.P.E.

United States Senate
Office of the Majority Leader
Washington, D. C.

August 3, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 8 1951
LANDON F. STROBEL
Executive Secretary

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

Re: DMA-996X
Cactus Mining Co.
Sunshine Mine
"Glory-Hole"
Pima County, Arizona

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Ernest W. McFarland

Ernest W. McFarland

Enc.

AUG 8 1951

ERNEST W. McFARLAND
ARIZONA

Mr. Sp. Ass't

United States Senate
Office of the Majority Leader
Washington, D. C.

August 3, 1951

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

Re: DMA-996X
Cactus Mining Co.
Sunshine Mine
"Glory-Hole"
Pima County, Arizona

AUG -7 1951
350 - Reply
Acting Adm.

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Ernest W. McFarland

Ernest W. McFarland

Enc.

[illegible] 1951

J. S. Burbridge
Cactus Milling Co.
Box 966 - Tucson, Ariz.
July - 28th 1951

Senator Ernest W. McFarland
United States Senate
Office of the Majority Leader
Washington, D. C.

Dear Senator McFarland:

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Cordially yours,

J. S. Burbridge

J. S. Burbridge

FILE COPY
SURNAME: 590

McKnight
Billings
O'Leary
(E. Mote)

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

AUG 15 1951

Re: DMA-996x

Mr. J. S. Burbridge
Cactus Milling Company
Box 966
Tucson, Arizona

Dear Mr. Burbridge:

Your application for an exploration loan to explore the Sunshine mine has been reviewed by the Defense Minerals Administration. We have the report of a field examination made of this property at our request.

On the basis of this report, we find that the proposed stripping operation on the outcrop cannot be recommended as an exploration venture, and as the other items in your proposal are for mining and milling equipment, I regret to inform you that your project cannot be approved under the exploration program of the DMA.

We believe that the proven and indicated ore on your property is too low grade to be profitably workable under present costs and metal prices, hence we are unable to recommend your project to the Reconstruction Finance Corporation for a direct loan.

We wish to thank you for bringing this property to our attention.

Very truly yours,

Tom Lyon J.F. 8/15

Tom Lyon, Director
Supply Division

ETMcKnight:jr
G: 8/13/51

Copies to: Files
J. H. East, Jr. (2)
Chief, Lead-Zinc Br.
E. T. McKnight
R. H. Mote
Records and Reports
Dir. Reading, Rm. 4212, GSA
Br. Reading, Rm. 4212, GSA

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

AUG 2 5 1950

a. E. C -

Re: DMA-996x
Cactus Mining Company and
Yewell Research Laboratory
Sunshine mine, Pima County,
Arizona
Exploration loan $10,470
Lead

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Subject: Denial of exploration loan

Most of this proposal is for purchase of a primary crusher for the mill, a compressor and mining equipment, but it also contains a proposal to strip the outcrop.

The field team report points out that the ore body forms a bold outcrop and has already been adequately explored by 4 shafts, 2 adits and many surface cuts, hence the stripping proposal has no merit as a needed exploration.

The ore body has been known for a long time and has produced about 5,000 tons of ore from its richest section. There are perhaps 45,000 tons of very low grade ore remaining. A new dry-process mill has been erected near the mine but it has not been proven, and the deposit is so low grade as to appear uneconomic.

The field team recommends that the exploration loan be denied, and the Lead-Zinc Branch concurs with this recommendation. The description of the deposit indicates that it holds no promise for production from the known ore. It is recommended that the attached letter be sent to the applicant.

Returned herewith is a copy of the field team report.

T. P. Billings, Chief
Lead-Zinc Branch

Approved

Tom Lyon
Director, Supply Division

FILE COPY
250
SURNAME:

McKnight
Billings

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

AUG 15 1951

Cactus milling Co
A. E. C.

Memorandum

Re: DMA-996x
Cactus Mining Company and
Yewell Research Laboratory
Sunshine mine, Pima County,
Arizona
Exploration loan $10,470
Lead

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Subject: Denial of exploration loan

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Returned herewith is a copy of the field team report.

J.F 8/15

cc: Files
J. H. East, Jr. (2)
Ch., Lead-Zinc Br.
E. T. McKnight
R. H. Mote
Reports and Records
Dir. Reading, Rm.4212
Br. Reading, Rm.4212

T. P. Billings, Chief
Lead-Zinc Branch

Approved: Tom Lyon

Director, Supply Division

E. T. McKnight:jr
G: 8/13/51

AUG 1 5 1951

Re: [illegible]
Custom Mining Company and
Yewell Research Laboratory
Sunshine mine, Pima County,
Arizona
Exploration loan $10,470
Lead

Memorandum

To: Reports and Records Unit
Administrative Management Division

From: Lead-Zinc Branch

Subject: Denial of exploration loan

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cc: Files
J. H. Rast, Jr. (2)
Ch., Lead-Zinc Br.
E. T. Seinight
A. H. Hoth
Reports and Records
Dir. Reading, Rm.4212
Dr. Reading, Rm.4212

E. T. Seinight:jr
G: 8/13/51

E. T. Billings, Chief
Lead-Zinc Branch

Approved: Tom Lyon

Director, Supply Division

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION IV

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

July 17, 1951

Memorandum

To: Landon Strobel, Executive Secretary
Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 996X, Yewell Research Laboratory, Cactus Milling Company, Sunshine Mine, Pima County, Arizona

Attached is the report on Docket DMA 996X as listed above.

We agree with geologists and recommend that this application be denied.

J. H. East, Jr.

A. H. Koschmann

Attachment

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 23 1951
LANDON F. STROBEL
Executive Secretary

JUL 24 1951 4

AEC

July 17, 1951

Memorandum

To: Landon Pirtle, Executive Secretary
Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 996X, Yavapai Research Laboratory, Sheldon Williams Company, Sunshine Mine, Pima County, Arizona

Attached is the report on Docket DMA 996X as listed above.

We agree with geologists and recommend that this application be denied.

J. H. Ewart, Jr.
J. H. Ewart, Jr.

A. H. Koschmann
A. H. Koschmann

Attachment

cc: DMA

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

DEFENSE MINERALS ADMINISTRATION
OTTO HERRES
5326 3616

SALARIES AND EXPENSES
DEFENSE PRODUCTION ACT DEPARTMENT OF INTERIOR 1952
JULY 13, 1951
J. H. EAST, JR.
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

DMA-996X

PLEASE RETURN DOCKET 996X CACTUS MILLING COMPANY ARIZONA

Otto Herres

OTTO HERRES, CHIEF
LEAD ZINC BRANCH
DEFENSE MINERALS ADMINISTRATION

OHERRES:ks

cc: Mr. Maye
Audits
Reports & Records Unit
Mote
McKnight
Herres
Files

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

July 13, 1951

DMA-9961
Centra Mining Company
Sunshine Mine "Glory-Hole"
Pima County, Arizona

Hon. Ernest W. McFarland
United States Senate
Washington 25, D. C.

My dear Senator McFarland:

This will acknowledge receipt of your request of July 10 to expedite as much as possible the application of Messrs. Robert A. Steinbacher, Morris J. Colvin and Jonathan S. Kinbridge in partnership with Mr. Ford F. Yurell, all of Tucson, Arizona, for government assistance under the exploration program of Defense Minerals Administration.

In accordance with your request I shall be pleased to arrange for the handling of this application promptly.

If I can be of further assistance to you at any time, please feel free to call on me.

Sincerely yours,

JAMES BOYD

Administrator

OHERRES:ks

cc: Administrator
Reports & Records Unit
Mote
McKnight
Herres
Files

ERNEST W. McFARLAND
ARIZONA

United States Senate
Office of the Majority Leader
Washington, D. C.

July 10, 1951

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

7/20/51
Return -
reply - Boyd

Re: DMA Docket No. 996X

Dear Dr. Boyd:

On or about May 7 Messrs. Robert A. Steinbacher, Morris J. Corvin, and Jonathan S. Winbridge in partnership with Mr. Paul R. Yarell, all of Tucson, Arizona, filed an application with the Defense Minerals Administration for a mining loan and such application was assigned the docket number referred to above.

I would greatly appreciate it if this application could be processed as expeditiously as possible and your advising me of the action taken thereon.

With best wishes, I am

Very truly yours,

Ernest W. McFarland

Ernest W. McFarland

FILE COPY
SURNAME:

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

Herres
O'Leary
(Cc: Note)
McKnight

DEFENSE MINERALS ADMINISTRATION
OTTO HERRES
5226 3616

SALARIES AND EXPENSES
DEFENSE PRODUCTION ACT DEPARTMENT OF INTERIOR 1952
JULY 13, 1951
J. N. EAST, JR.
~~226 NEW~~ CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

DMA-996X

PLEASE RETURN DOCKET 996X CACTUS MILLING COMPANY ARIZONA

Otto Herres

OTTO HERRES, CHIEF
LEAD ZINC BRANCH
DEFENSE MINERALS ADMINISTRATION

OHERRES:ks

cc: Mr. Maye
Audits
Reports & Records Unit
Note
McKnight
Herres
Files

Docket 996

856

FILE COPY
SURNAME:

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

Herres
O'Leary
(For Mots)
Upfield
Stuart 7/17

July 13, 1951

DMA-996X
Cactus Mining Company
Sunshine Mine "Glory-Hole"
Pima County, Arizona

Hon. Ernest W. McFarland
United States Senate
Washington 25, D. C.

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JAMES BOYD

Administrator

W

CHERRES:ks

cc: Administrator
Reports & Records Unit
Note
McKnight
Herres
Files

ERNEST W. McFARLAND
ARIZONA

United States Senate
Office of the Majority Leader
Washington, D. C.

Marsh - Copy Control
No attachments

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 13 1951
LANDON F. STROBEL
Executive Secretary

July 10, 1951

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

Castus Mining Co.

Re: DMA Docket No. 996X

Dear Dr. Boyd:

On or about May 7 Messrs. Robert A. Steinbacher, Norris J. Colvin, and Jonathan S. Binbridge in partnership with Mr. Paul R. Yurell, all of Tucson, Arizona, filed an application with the Defense Minerals Administration for a mining loan and such application was assigned the docket number referred to above.

I would greatly appreciate it if this application could be processed as expeditiously as possible and your advising me of the action taken thereon.

With best wishes, I am

Very truly yours,

Ernest W. McFarland

Ernest W. McFarland

JUL 13 1951

4

BUREAU OF MINES
WASHINGTON, D. C.

1951 JUL 12 AM 11 27

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

224 New Customhouse
Denver 2, Colorado

July 13, 1951

Mr. Otto Herres, Chief
Lead-Zinc Branch
Defense Minerals Administration
Interior Building
Washington 25, D. C.

Dear Mr. Herres:

The report and brochure of the Yewell Research Laboratory and Cactus Milling Company, DMA Docket 996X, requested in your teletype of July 13, was mailed to Defense Minerals Administration today.

Yours very truly,

J. H. East, Jr.,
Executive Officer
DMA Field Team, Region IV

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 17 1951
LANDON P. STROBEL
Executive Secretary

JUL 17 1951

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

224 New Customhouse
Denver 2, Colorado

July 13, 1951

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Yours very truly,

J. H. East, Jr.,
Executive Officer
DMA Field Team, Region IV

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

200 New Customhouse
Denver 2, Colorado

July 5, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: Memorandum Report on DMA Docket 996X, Yewell Research Laboratory and Cactus Milling Company, Sunshine Mine, Pima County, Arizona

Enclosed are the original and 5 copies of the memorandum report on DMA Docket 996X, written by John N. Faick of the Geological Survey.

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

Enclosures

FOR GOVERNMENT USE ONLY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 23 1951
LANSON F. SCHMEL
Executive Secretary

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

200 New Customhouse
Denver 2, Colorado

July 5, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: Memorandum Report on DMA Docket 936X, Yewell Research Laboratory and Cactus Milling Company, Sunshine Mine, Pima County, Arizona

Enclosed are the original and 5 copies of the memorandum report on DMA Docket 936X, written by John H. Faick of the Geological Survey.

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

Enclosures

FOR GOVERNMENT USE ONLY

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Received
JUL 23 1951
LANDON F. STIEBEL
Executive Secretary

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

July 2, 1951

Memorandum

To: Mr. A. H. Koschmann, Denver, Colorado

From: Mr. A. F. Shride, Tucson, Arizona

Subject: Memorandum Report on DMA Docket 996X, Yewell Research Laboratory and Cactus Milling Company, Sunshine Mine, Pima County, Arizona

Enclosed are 1 original and 5 copies of the memorandum on DMA Docket 996X, written by John N. Faick of the Geological Survey. This memorandum recommends that an exploration loan be denied. I approve of the recommendation.

No copies of the memorandum are to be returned to Tucson.

One copy of the brochure is enclosed.

A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 7

CC: Mr. W. R. Storms

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

July 2, 1951

Memorandum

To: Field Team, Region IV

From: John N. Faick, U. S. Geological Survey, Tucson, Arizona

Subject: DMA Docket 996X, Yewell Research Laboratory and Cactus Milling Co., Pima County, Arizona

The Sunshine mine is the subject of an application for $10,470.00, of which one-half is to be provided by the Government. The applicant proposed to use the money for the purchase of a primary crusher for the mill, a compressor, mining equipment, and to strip the outcrop of an orebody. The property has little merit and as the ore zone forms a bold outcrop, it needs no stripping to expose it. This is not an acceptable exploration project and the loan should be denied.

The Sunshine mine is on a prominent ridge a short distance west of the Sierrita Mountains in Pima County, Arizona. The mine is in Section 12, T. 17 S., R. 11 E. in an area of little rainfall and sparse desert vegetation. It can be reached by 10 miles of fair dirt road that turns easterly from the Sasabe road about 11.7 miles south of Three Points (Robles Ranch).

The Sunshine mine and adjacent Sunrise claims, making a group of 18 claims, are held under lease and option to purchase by Paul R. Yewell, Yewell Research Laboratory, Tucson, Arizona; and his associates J. S. Burbridge, R. A. Steinbacker, and N. J. Colvin. This property has been known for many years and has been described briefly by Ransome.[1] The Sunshine mine has a recorded production of 200,000 pounds of lead and $10,000 in silver. It was at one time equipped with a small mill.

The Sunshine mine area is underlain by schists formed by regional metamorphism of rocks of sedimentary and volcanic origin. The schists contain considerable limestone as masses measuring

1/ Ransome, F. L., Ore Deposits of the Sierrita Mountains, Pima County, Arizona, U. S. Geol. Survey Bull. 725, pp. 407-428, 1922.

several hundred feet long and as much as 100 feet wide. The limestones do not show the effect of intense metamorphism but are slightly recrystallized and moderately shattered and broken by faulting. The Sunshine orebody occurs in one of these lenticular limestone members in the schist series.

The ore is quite widely distributed in a large limestone lense that has been moderately shattered by two sets of faults and minor related fractures. The orebody originally cropped out at the south end of a prominent ridge and has been explored by four shafts, two adits, and many surface cuts. These indicate the orebody is about 400 feet long, probably not less than 200 feet wide on the dip and averages about 6 feet thick. The thickness is extremely irregular and varies from a few inches to about 30 feet in the Sunshine stope.

The ore is a simple type in which galena filled voids and to a small extent replaced the shattered limestone. The ore contains a small amount of silver and copper. The galena has been partly oxidized to anglesite and cerusite but most of the remaining ore is sulfide.

The amount of potential low-grade ore may be as much as 45,000 tons. The Sunshine stope is estimated to have produced about 5000 tons of ore from the south end of the mineralized zone where mineralization appears to be the strongest. The grade of this ore is not known but ore remaining in the stope is estimated at not more than 5 percent lead and most of the ore appears to be of a much lower grade. It is unlikely that the mine will produce very much commercial ore, although a higher grade product is now being produced by hand sorting in the stope.

The applicants have erected a new dry-process mill near the mine. The mill is expected to handle 25 tons per day and is based on a special table design developed and patented by Paul R. Yewell. The mining venture is undertaken primarily to supply ore to the mill and it is also hoped that custom ore will be available.

The venture is being financed by Mr. N. J. Colvin, Los Angeles, California, who reports he has invested about $20,000 and is now unable to put in additional funds without a guarantee that the project will be successful. The dry-process mill is unproved and the deposit is so low grade as to appear uneconomic. It appears that the venture is doomed to failure.

Additional expenditures on the property are not justified because of the small size and poor grade of the orebody. It has been adequately developed and explored by the old workings, therefore it is recommended that the loan be denied.

John N. Faick

John N. Faick
Geologist

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. Box 4126, University Station
Tucson, Arizona

July 2, 1951

Memorandum

To: Mr. A. H. Koschmann, Denver, Colorado

From: Mr. A. F. Shride, Tucson, Arizona

Subject: Memorandum Report on DMA Docket 996X, Yewell Research Laboratory and Cactus Milling Company, Sunshine Mine, Pima County, Arizona

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A. F. Shride
Acting District Supervisor
Arizona-New Mexico

Enclosures 7

CC: Mr. M. R. Storms

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O.Box 4126, University Station
Tucson, Arizona

July 2, 1951

Memorandum

To: Field Team, Region IV

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Additional expenditures on the property are not justified because of the small size and poor grade of the orebody. It has been adequately developed and explored by the old workings, therefore it is recommended that the loan be denied.

John N. Faick
Geologist

June 18, 1951

Mr. J. S. Burbridge
Partner
Cactus Milling Co.
Box 965
Tucson, Arizona

Subject: DMA-996X
Re: Exploration Loan
Sunshine Mine

My dear Mr. Burbridge:

Receipt is acknowledged of your application and attachments of May 7, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-996X and was referred to Mr. Otto Herres, Chief, Lead-Zinc Branch on June 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-996X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

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

4626

G.E.C.

JUN 15 1951

Docket [illegible]-996X
Yowell Research Lab.
Mine in Papago District
Near Ajo, Arizona
Lead
Exploration Loan

Cactus Co.
mint

Mr. J. H. Bean, Jr.
Executive Officer, DMA Field Team
Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. Bean:

This docket is referred to the field for information and advice. The proposal is to remove an overburden preparatory to open-cut mining which is hardly exploration. However, it could be exploration if it were designed to prove up more ore in order to justify a mining operation. Whether this would be the most efficient type of exploration is not evident from the docket submitted.

The geologic description is not too clear and the property also needs a geologic examination to determine whether an exploration project would have reasonable chances of success.

Very truly yours,

Theo Lyon

Chairman
Coordinating Committee

Thomas Nolan

For the Bureau of Mines

Matt Nolan

For the Geological Survey

E.M.McKNIGHT:emp
G 6/14/51

Copies to: Chief, Lead-Zinc Br.
J. T. McKnight 4204 GSA
R. M. Mote
L. F. Strobel
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

a. E.C.

[illegible] Cactus Mulkins Co.

[illegible] Paul F. Powell
Powell Research Laboratory
Box 766
[illegible], Arizona

Dear Mr. Powell:

Your application for a lease (LSA-7364) to explore the Sunshine Prospect No. 1, in the [illegible] District, Arizona, has been referred to Mr. J. E. [illegible], Jr., Executive Officer of the Field [illegible], 214 New [illegible] Building, [illegible], for further [illegible] and advice.

[illegible]

[illegible]
[illegible] Director
[illegible]

[illegible]:emp
[illegible]/14/51
Copies to: Chief, Land-Zone Br.
J. E. Last, Jr. [illegible] (2)
[illegible] McKnight 4214 [illegible]
R. H. Kate
L. F. Stroebel
Directors r. file 4214 [illegible]
Dr. r. file 4214 [illegible]
Files

JUN 15 1951

Docket DMA-996X
Yewell Research Lab.
Mine in Papago District
Near Tucson, Arizona
Lead
Exploration Loan

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUN 20 1951
BUREAU OF MINES
DENVER, COLORADO

Mr. J. H. Frost, Jr.
Executive Officer, DMA Field Team
Region IV
204 New Customhouse
Denver 2, Colorado

Dear Mr. East:

This docket is referred to the field for information and advice. The proposal is to remove an overburden preparatory to open-cut mining which is hardly exploration. However, it could be exploration if it were designed to prove up more ore in order to justify a mining operation. Whether this would be the most efficient type of exploration is not evident from the docket submitted.

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Chairman
Coordinating Committee

For the Bureau of Mines

For the Geological Survey

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 23 1951
LAWSON W. STROBEL
Executive Secretary

Form MF-100
(March 1951)

U.S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA FOR USE UNDER THE DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-996X

Date received 6/4/51

YEWELL RESEARCH LAB.
RAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is 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 Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: 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)
Paul R. Yowell	Individual						
636 W. Ore Road-Tucson.							
J. S. Burbridge							
R. A. Steinbacker	Partnership						
N. J. Colvin							
Box 966-Tucson							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. 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	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 996

GENERAL TECHNICAL DATA.

1. (a) Lead, Silver --- Lead-Silver Con.
(b) Ground and screen blue limestone.

2. Name - Sunshine Orebody # One
Type - Open cut
Mill - Dry grind
Smelter -None
Refinery - None
Pits - One small (Not in use)
Quarry - One
Drilling Operations (Open cut and quarring)
Old names - Always Old Sunshine Workings. Since 80's
Extent of work - Old map of 1920 included.

(a) About 400 feet.

(b) About 150 feet.

(c) About 400 feet.

(d) Several openings along surface for 1,000 feet and to a depth of 75 feet. As explained in U. S. Geog. Sur. Bull # 725 and Report by Mr. C. H. James - Find enclosed.

The mine is not flooded and no pumping problems are expected.

Production capacity 25 to 100 tons per day. Milling Ore.

3. (a) 43 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britten's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road. Giving two outlets from the mine. The road to Britten's Ranch is very good, and is only fair the last two miles on up the Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

(b) Papago Mining District of the Sierrita Mountains, Pima County, Arizona.
(c) Range 11 - E & Township 17 S. -- Section # 12.
(d) Pima County, Arizona

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # ~~956~~ 996

4. (a) Property is not in operation.
(b) Lessee.

5. Can not answer (Has been worked off and on since 80'S. Soon (about July 1st.)

6. Mr. Paul R. Yewell 636 W. Oro Road - Tucson, Ariz.
Mining Engineer
Owner and operator of The Yewell Research Lab.

Mr. J. S. Burbridge
Mine Operator (2 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.

Mr. R. A. Steinbacker
Mechanic (Business and store operator)

Mr. N. J. Colvin (Retired Lumber Businessman)

7. (a) "Ore Deposits of the Sierrita Mountains" By F. L. Ransome
One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine By C. H. James
Copy enclosed.

Repo rt of Sunshine Mine " Glory Hole" By H. C. Ertel
Copy enclosed.
Available maps and drawings enclosed.
Reason for past suspension of work, " Lack of enough Water".

(b) Banner Mine -- U. S. Geog. Surv. Bull. # 725

(c) Available reports and maps enclosed.

8. Not a Corporation. Names are on Form MF-100

9. None.

10. Lead-Silver (Do not know production of 1948,49,50,
Do not know
Do not know.

11. Yes! 25 tons per day for 25 working days per month.
Milling ore

12. U. S. Geog. Surv. Bull. 725 Sunshine Mine.
Preliminary Notes -- By C. H. James

(b) Map enclosed.

YEWELL RESEARCH LAB.

&

CACTUS MILLING CO.

BOX 966

TUCSON, ARIZONA

 DMA DOCKET # 996

12. (b) Cont. Taken from old reports enclosed.

13. 43 Miles to Tucson, Arizona -- Gravel road on Sasabe road to Three Points, then paved highway to Tucson.
Mountain roads from Mine to Sasabe road in fair condition.

14. Water for domestic use for all seasons of year. In Ash Canyon.
Plenty of water for engines and machinery.
None needed for milling operations.

15. One 25 KW Gas-Elec. Gen.
One 7.5 KW Gas-Elec. Gen.
One 8 Crysler Engine Power unit. (Red Mill and Crushers)
One V-8 Ford Power Unit. (Crusher)

16. Needed - 8 miners, muckers, - 2 mill men, 1 labor
(recent representative payroll period, One Laher.)

17. Two cabins in good condition, one equip. for living at present time, the other needs stove, beds, and household equipment.
Well in Ash Canyon for domestic water.

One Complete Mill soon in full operation.
One 60 ton Bin
One 8 x 10 Jaw Crusher
One Rod Mill
One set of rolls
5 Screens for classify
5 Small Bins
Five Tables for separation of ore from waste and all necessary elec. equipment.
One 7.5 KW Gas-Elec. Gen.
One 25 KW Gas-Elec. Gen.

18. None that we know of.

YEWELL RESEARCH BAB.

CACTUS MILLING CO.

LEAD ORE
Galena - Cerussite
Sunshine Mine # 1, Ariz. DMA Docket # 996

SCREEN ANALYSIS & ACCOUNTABILITY

Size Mesh	Pounds Gross Wt.	Percent Total Wt.	Sample Wt. Lbs	Net Wt. Pounds	Percent Net Wt.	
-20 -40	672.0	32.821	5.5	666.5	32.923	#Assayed
-40 -60	628.0	30.672	4.0	624.0	30.822	1.12% of
-60 -80	93.0	4.542	4.0	89.0	4.396	total Weight
-80 -100	92.0	4.493	3.5	88.5	4.372	##Pounds for
-100	562.5	27.473	6.0	556.5	27.486	which accoun
TOTALS	2047.5	100.000	23.0 #	2024.5 ##	99.999	table.

PRODUCTS

Size Mesh	Pounds	Dust	Net Wt	% Total	Pounds	% Total	Lbs.	% Total	Lbs.	% To
	HEADS				TAILS		MIDS		CONS.	
Size Mesh	Pounds	Dust	Net Wt	% Total	Pounds	% Total	Lbs.	% Total	Lbs.	% Total
-20 - 40	666.5	21.5	645.0	34.037	497.0	30.542	64.5	38.856	83.5	37.868
-40 +60	624.0	27.0	597.0	31.504	514.0	31.580	39.0	23.494	44.0	19.955
-60 - 80	89.0	4.0	85.0	4.485	41.5	2.552	17.5	10.542	26.0	11.791
-80 -100	88.5	1.5	87.0	4.591	49.5	3.022	15.0	9.036	22.5	10.204
-100	556.5	75.5	481.0	25.383	406.5	24.817	30.0	18.072	44.5	20.182
TOTALS	2024.5	129.5	1895.0	100.000	1508.5#	------	166.0	100.000	220.5	100.000
Dust	----------				129.5	7.906	----------			
Net	2024.5	----	1895.0	100.000	1638.0	100.000	166.0	100.000	220.5	100.000
% Tot. Wt.			100.00			80.91		8.20		10.89

#1508.5 pounds of tails sampled and assayed. Dust considered as tails.

DISTRIBUTION OF VALUES -- RECOVERY

PRODUCTS		LEAD			SILVER			GOLD			
Final Products	Weight Pounds	Assay %	Factor	% Total Value	Oz. Assay	Factor	% Total Value	Assay Oz.	Factor	% Total Value
TAILS	1508.5	0.6	905.1	5.744	0.4	603.4	5.938	Tr.	XXX	XXX
Mids	166.0	3.4	564.4	3.582	1.7	282.2	4.180	0.005	0.850	2.236
Cons	220.5	64.8	14288.4	90.674	26.6	5865.3	86.882	0.160	36.280	97.763
Totals	1895.0	----	15757.9	1000000	---	6750.9	100.000	------	37.110	100.000
HEADS	#2024.5	7.78			3.04			0.019		#Computed
TAILS	#1639.0	0.557			0.32			xxxxx		#Computed

NOTE 90.67 % of the lead, 86.88 % of the silver, and 97.76 % of the gold were put into 10.89 % of the weight.

YEWELL RESEARCH LABORATORY
16th June 1950

By Joe E. Bacon
c/o Merritt Jones Hotel,
Ocean Park,
Calif.

Who Worked in Sunshine Mine 1948

REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. C. Ertel Dec. 16, 1947

"COPY"

After 60 days of work sampling and looking over this one Claim My report are facts. I have seen for the future of the Properity as a mine.

The ore shewing is enough to warrant a 15 ton mill Per 24 hr. day running. With Present water supply it may be possible to mill 20 ton by saveing 25% of the water.

The cost of developing more water is to large at this time to Pay.

By working the ore as an open pit mine a small cost for man power and over head is possible.

The Present ore values are on top level and little waste needs to be moved.

The water supply now on hand is about 9 gal. per min. This amount (at three parts water one of solids) will grind and save the avg. of 87% of the values from about 17 1/4 ton of ore Per 24 hrs. milling.

It is possible to set such a mill in place for the Cost and sale of the Present Equipment on hand.

This machinery here now will not save the values in this ore and the water supply is not enough to run more than 3 hrs. per day.

The cost of power and over head is far above the values saved

The best plan is to put in a small 15 or 20 ton Ball mill

REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. C. Ertel "COPY" Dec. 16, 1947

cut all cost o f labor to the last cent needed and use good ore to mill dump all ore or Rock below $10.00 values and ship all High grade Picked lead.

In doing this a lot of development can be done and the values shall pay the expenses.

This report is backed by a sample ton of ore ship from here grossing $117.00 per ton. Assay - Lead 44.1 %
Silver 18/1 Oz.

By: H. C. Ertel

Copy

PRELIMINARY NOTES

ON THE

SUNSHINE - SUNRISE MINES

PAPAGO MINING DISTRICT, PIMA COUNTY, ARIZONA

JULY 30, 1920

The holdings of this consolidation comprises sixteen contiguous lode mining claims and two millsites of an approximate area of 300 acres, situated on northwesterly foothill spurs of the Sierreta Mountains and about 34 miles southwesterly by highway and a fair desert road from Tucson.

The principal silver-lead lode and some of the subordinate veins have been intermittently worked for high grade ores over a peroid of many years, but no comprehensive develo gment and operating policy on a scale justified by the large showings and indications, has been pursued.

These holdings occupy almost a mile of one of the most highly mineralized belts in the section. The main line of ore bodies occur along a strata of tilled, fractured and silicified limestone, streaked, seamed and impregnated with Argentiferous galena in generally payable proportions. The limestone is intruded by wide and narnarrow sills and dikes of andesite which have influenced mineralization from below, and the formation abuts against an Alaskite granite-perphyry which in itself contains copper and silver bearing veins of considerable promise.

"SUNSHINE OREBODY"

This is opened at and near suface for a continious length of 1,000 feet by shallow and deep trenches and prospect shafts and by faces and inclines cut into the side and end of a limestone bluff which is, in large part, of very good milling grade. The northern portion of these surface exposures prove a general width of from 7 feet to 15 feet of

mixed carbonate and galena ore. Near the center of this continious ore shoot, a shaft is sunk 150 feet showing at 100 feet level crosscuts 40 feet wide of medium to low grade material. A Winze sunk 25 feet below the level is sunk on good pay ore for its full width, there being a noticable increase in proportion of silver to lead.

The open faces, cuts and inclines in a limestone bluff near the southern end of the 1000 feet of ore opened to date, expose andfollows a solid face of galena carbonate limestone ore 40 feet wide at right angles to dip and over 50 feet are exposed. This is all good average milling value with segreation streaks of solid galena up to 15 inches wide

The width, even mineralization and generally uniform and payable value of this ore-exposure is impressive and alone merits the vigorous continued development and operation of this property.

About 200 feet south of this cliff exposure and about 100 feet vertically below it, in Ash Canyon, a tunnel has been driven along the foot wall of the main ore-bearing limestone mass and at 110 feet from portal ore of similar good grade has opened by an 18 foot raise and a 30 foot winze. The adit drift continues in ore for 40 feet and then follows foot-walls schist. Crosscuts and drift crosscuts off this exposed ore of low grade and in places high grade, but practically all of this work has been badly laid out and the main ore bodies exposed at surface have not yet been properly explored for at the tunnel level. The chatactor and grade of the ore partly opened to date together with that opened in the deepest workings of No. 1 shaft, coupled with the structure great size, length and structural condition of the orebearing zone, promise continutiy of size and value with depth. In fact deep develo pment of similarly conditioned ore occurences in the neighboring Twin Buttes, Mineral Hill camps has pr oved these orebodies to increase in size and value with depth and there are good reasons to expect same of the Sunshine orebodies.

The ore is of uniform character consisting of partly silicified, dark limestone, with streaks of quarts and calcite and a heavy mineralization as streads, bunches and impregnations of galena witha little pryite and a very little zinc. Near surface part, but not a preponderance, of lead occurs as carbonate. Without a very thorough sampling of the whole it is impossible to state the exact average lead-silver and content of the exposed ores, but it is very safe to approximate the general tenor of the whole at $1.00 Gold - 7 oz. Silver - 8% Lead. Taking Silver at a paid price of 95 cents and lead at a paid price of 6 cents per pound less 2%deduction, this would show a gross paid for general value of $1.00 Gold $6.65 silver and $7.20 lead netting 6 cents per pound, or a total of $14.85 per ton. Much of the ore exposed carries considerably higher values especially in silver, and I consider this working approximation conservative for a preliminary basis of consideration.

The Quantity of ore in this one continious ore shoot as partly proven and assured, but not yet fully blocked out by drifts and rises, etc/, can be safely estimated to contain for 1,000 feet opened at surface and to a depth of only 75 feet, and for an estimated minimum average width of 12 feet, to contain a recoverable and "paid for" value on above metal prices of $14.85 per ton) allowing 13 cub. ft. per ton)or a total recoverable value of $1,113, 750 in this ore shallow zone.

C O S T S

Working conditions are excellent and compare favorably with any camp in the region. The ore will be cheaply mined and milled and a high percentage recovery will be obtained by medium crushing and straight concentration or Floatation - The latter preferable when the part carbonate ores have been depleted.

The ratio of concentration will be about 7 to 1 on the general grade of ore exposed.

Following further developement and putting the mine in shape for continued and extensive mining and milling, a 100 ton per day treatment plant could be safely installed.

On foregoing estimates of average recoverable values of $14.85 and estimating a total expense on mining and milling and marketing concentrate of $5.50 per ton; crude ore the estimated working profit would be $8.85 per ton crude, or a total working profit of $701,250 from this block of ground.

The above approximation applies solely to the superficial ores as above demarcated. There is every reason to expect that further and deeper developement, both in this locality and at other points in this property, will prove up to a tonnage of ore out of all proportion to that approximated above.

It is likely that when developement proceeds below water level and the partly leached surface zone exposed to date, values, particularly silver, will increase. In this connection it is noticable that the ratio ofsilver to lead had increased in the lowest shaft winze workings.

With some improvement to old road, necessited by washouts, Tucson will be brought within a good truck haulage of 34 miles.

Water supply is assured from future mine workings and by development of water bearing kaolin belt, paralleling the Sunshine vein.

In adition to the main Sunshine silver-lead vein, several other ore occurences warrant developement, particularly a copper silver-gold bearing contract travrsing the central Sunrise claims and partly opened by ### inclined shafts, cuts and tunnels, which show bunches and streaks of oxidized and sulphide copper silver ores of good grade.

The Foregoing provisional notes are based on several days inspection of the property and a general study of the locality.

Values have been arrived at from creditable previous samples and a very moderat amount of sampling by myself. A thorough examination and sampling would certainly enable a more definate statement of the property and very probably a largely amplified appreciation of ore tonnage and ore values.

I confidently recommend this property as a sound development and operating undertaking having an unusually large amount of ore opened for the development accomplished to date.

(Signed) C. H. James

July 30, 1920
Tucson, Arizona

(This is a copy)

"From"

Nolen L. McLean
Attorney at Law
90 N. Church St.
Tucson, Arizona.

DMA DOCKET # 996

Recored # 29591
Book # 283
Page # 152

OPERATING AGREEMENT (Copy)

KNOW ALL MEN BY THESE PRESENTS: That on this 17 day of July, 1950, the Cactus Milling Co., a co-partnership composed of Norris J. Colvin, Robert A. Steinbacker, and Jonathan Burbridge, hereinafter called the "Miller", and Paul R. Yewell doing business as the Yewell Research Laboratory, hereinafter know as the "Concentrator", and Fred W. Fickett as Executor of the Estate of S. W. Purcell, ~~D~~ Deceased, and Fred W. Fickett, an individual, hereinafter known as the "Landlord", and Walter N. Calvert, hereinafter known as the "Tenant", ~~do~~ make and enter into an agreement as follows, to-wit:

(1) The Landlord consents to the terms of this contract and the covenants hereinafter set out.

(2) The Miller covenants and agrees to install a crushing, grinding, and screening mill on property demised by the Tenant herein, for the purpose of crushing, grinding, and screening ore from the Sunshine Mine, which said mill shall have a minimum capacity of twenty-five (25) tons per day, and to crush, grind, and screen ore supplied by the Tenant, and shall deliver the same to the Concentrator.

(3) The Concentrator herein agrees to separate, concentrate, and deliver said concentrates to the concentrate bin.

(4) The cost of sacks and sacking and transporting the concentrates from the mill to the smelter or other market and the treatment at the smelter will be borne equally by the Landlord and the Tenant on the one hand and the Miller and the Concentrator on the other hand. The separated and concentrated products,containing

OPERATING AGREEMENT (Copy)

valuable minerals produced by the said concentration, shall be sacked by the Miller, and the Landlord will receive ten (10%) percent and the Tenant will receive forty (40%) per cent of the net smelter return, and the Miller will receive twenty-five (25%) per cent of the net smelter return, and the Concentrator will receive twenty-five (25%) per cent of the net smelter return.

(5) The Tenant agrees that he will supply Twenty-Five ($25.00) Dollar ore which averages not less than Twenty-Five ($25.00) Dollars per ton in value, which averages will be computed on the basis of periods of sixty (60) days each, to the Miller, that he will supply not less than twenty-five (25) tons per day for not less than twenty-five (25) days per month, that he will put the ore in the bin of the Miller so sized that it will pass through the grizzley, provided that if said Tenant fails for a period of sixty (60) days, unless excused by Act of God or circumstances beyond his control, from delivering the minumum guantity of ore hereinbefore recited, then and in that event, the Landlord agrees and the Tenant agrees that the Miller may take over the operation of said mine and succed to all the rights, duties, privileges, and liabilities of the Tenant in and to the Lease hereto fore entered into between the Landlord and Tenant.

IN WITNESS WHEREOF, the parties have hereunto set their hands this 17 day of July, 1950.

Signed Norris J. Colvin

Signed Jonathan Burbridge

Signed Robert A. Steinbacker

MILLER

DMA DOCKET # 996

OPERATING AGREEMENT (Copy)

YEWELL RESEARCH LABORATORY

Signed By Paul R. Yewell
PAUL R. YEWELL

CONCENTRATOR

SIGNED Fred W. Fickett
Fred W. Fickett, ad Executor of the Estate of S. W. PURCELL, Deceased

Signed Fred W. Fickett
Fred W. Ficket, an individual

LANDLORD

Signed Walter N. Calvert
Walter N. Calvert

TENANT

"FROM"

Law Offices Of
Fred W. Fickett
140 North Church Street
Tucson, Arizona

Page # 1
BMA DOCKET # 966

(Copy)

ASSIGNMENT

I, WALTER N. CALVERT, do hereby transfer, assign, convey and set over to ROBERT STEINBACKER, MORRIS COLVIN, PAUL YEWELL and J. S. BURBRIDGE, hereinafter referred to as "Buyers," that certain Lease and option entered into by and between Fred W. Fickett and Fred W. Fickett as Executor of the Estate of S. W. Purcell, Deceased, as parties of the first part, and Walter N. Calvert, as party of the second part therein, and covering those certain unpatented mining claims, two mill sites and water right located in the Papago Mining District in Pima County, Arizona and generally known as the Sunshine, Sunrise and Sunbeam group of mining claims, mill sites and water right, and I do also hereby convey to said Buyers all of the property described in said Lease and Option, and I do hereby expressly consent that the parties of the first part in said Lease and Option shall make their deed direct to the Buyers herein when and if the purchase price provided for therein has been paid in full.

IT IS UNDERSTOOD AND AGREED THAT THE Buyers shall pay to me the sum of $300.00, payable by transferring and paying to me five per cent (5%) of the net smelter or mill returns on all ore or concentrates hereafter shipped from the property described in said Lease and Option until the said $300.00 shall have been paid in full, and for said consideration I do also agree to sell and convey to the Buyers herein the ore bin which I have erected on said property, but the title to said ore bin shall remain in me until said $300.00 is paid in full, and if the Buyers herein fail to pay said $300.00 within six months from this date, the title to said ore bin

(copy)

ASSIGNMENT

shall revert absolutely to me, and the Buyers shall forfeit all sums paid under this Assignment as liquidated damages.

The Buyers do hereby agrdd to carry out all the terms and conditions of said Lease and Option hereinbefore referred to as required of the party of the second party therein and to relieve and hold harmless said second party thereon.

WITNESS my hand at Tucson, Arizona this 11th day of December, 1950.

Signed Walter N. Calvert
Walter N. Calvert

We, the undersigned Buyers in the foregoing assignment do hereby agree to and approve of all of the terms and conditions set forth therein.

WITNESS our hands at Tucson, Arizona, this 11th day of December, 1950.

Signed Robert Steinbacher
Robert Steinbacher

Norris J. Colvin
Norris Colvin

PAUL YEWELL

By Robert Steinbacher
His Agent

J. S. Burbridge

By Robert Steinbacher
His Agent

STATE OF ARIZONA)
County of Pima) ss.

The foregoing instrument was acknowledged before me this 11th day of December, 1950, by Robert Steinbacher and Norris Colvin, individually, and by Robert Steinbacher as agent for Paul Yewell and by Robert Steinbacher as agent for J. S. Burbridge, and by Walter N. Calvert. -- Erna N. Sornberger -- Notary Public

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-996X

Date received 6/4/51

Participation

YEWELL RESEARCH LAB.
PAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

FILL IN THIS BLOCK

Date of application May - 7 - 1951

Estimated cost $10,470.00

Mineral or metal Lead - Silver

Percentage of Government participation 50%

Location of mine Pagago Mining District, Pima County, Arizona
R. - 10 E.
T. - 17 S. (Section 12)

Date of filing MF-100 MAY-7 - 1951

DMA Docket Number, if available 996X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Cactus Milling Co. Yewell Research Lab — (Name of company)

R. G. Steinbacher — (Signature of authorized official)

May 29-51 — (Date)

J. Partner — (Title)

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

*Same as footnote on page 1.

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

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 966

1 Individual and Partnership
Paul R. Yewell as an individual
Cactus Milling Co. as a partnership

2 Partnership
J. S. Burbridge
R. A. Steinbacker
N. J. Colvin (P. O. Box # 966 Tucson, Ariz.)

3 None

4 (a) Mr. Paul R. Yewell 636 W. Oro Road Tucson, Arizona
Mining Engineer
Owner and operator of The Yewell Research Lab.
(b) Mr. J. S. Burbridge
Mine Operator (2 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.
Mr. R. A. Steinbacker
Mechanic (Business and store operator)
Mr. N. J. Colvin (Retired Lumber Businessman)

5 Lessee

6 Not Owner

7 Copy of Lease and lienor in good standing.

8 Machinery and equipment, Mill and Milling Supplies are all paid for, at present value of about $20,000.00 Each

9 $5,000.00

10 (a) Sunshine # 2, This claim joins The Sunshine # 1. (Real Prop.) The work is to open up the upper part of the vein above the portal of the old tunnell, and make an open cut mine.
(b) On Sunshine # 2 which contunues on from Sunshine # 1, which starts at Ash Creek. No maps of Sunshine # 2 available.

11 Sunshine and Sunbeam group of mining claims, always have been under these names.

12 43 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britton's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road.

Giving two outlets from the mine. The mine ####### road to Britten's Ranch is very good, and is only fair the last two miles on up the The Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

13 Water is available for domestic purposes from the wells in the bottom of Ash Creek.
(b) One Ford V-8 Power Unit and One Gaoline Jack Hammer Gas. consumation about 4 gal. per Hour.

14 One new ore shoot, in good condition, only needs a gate, car and about 150 feet of tract. Capacity about 25 tons.

15 The Ore will be Milled on the Sunshine # 1 Claim by Yewell Research Lab. and The Cactus Milling Co. , Under new Patients by Mr. P. R. Yewell, No water will be used and a test run on this ore on 16th of June 1950 is attatched. The Cons. will be sacked and trucked to Tuscon and shipped to a Smelter.

16 "Ore Deposits of the Sierrita Mountains" by F. L. Ransome One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine by C. H. James Copy enclosed.

Report of Sunshine Mine "Glory Hole" By H. C. Ertel Copy enclosed.

Available maps and drawings enclosed.

Reason for past suspension of work, " Lack of enough Water".

(b) Banner Mine) U. S. Geog. Surv. Bull.#725
University of Arizona

(c) Copy of test run on the average ore from the Sunshine # 1 Claim. Find Enclosed.

17 Not in production.

18 U. S. Geog. Surv. Bull # 725 and reports enclosed along with maps.

19 Very good climate.

20 Lead-Silver Ore Mostly Lead. OPinion of all mining men that have seen the property. There is another Blow out of Lead Silver Ore under the Lime Guarts Capping.

21 To remove the wast material by quarring method. Waste material to be dumped down the canyon or possibly used to make new roads and improve the old ones later on. About 6 months.

22 The same formation at the start of the claim and very similiar to Sunshine # 1. The Silver content is strong about 3 to 5 ozs more than Sunshine # 1 and the Lead content shows 3 to 5% more lead. U. S. Geog. Surv. Bull # 725. No supportings maps available.

THE REQUIREMENTS AND COSTS

			Miner --- Mucker	Day	Month
# 23	(a)	3 men:	one --- Two		
		One	Miner	$15.00	$375.00
		Two	Muckers---	$20.00	$500.00
	(b)	One Superintendent			$300.00
			Material		
	(c)	Ore gate - car & Track 12 pieces Lumber 2 x 6 x 18 ft. for bin and shoot now on property.	$150.		
	(d)	Primary Jay Crusher (Used)	500.		
	(e)	One Warsop power Tools Rock Drilling. To use in operating as an open cut mine.	600.		
	(f)	None.			
	(g)	Ford V-8 Power unit Rent			##
		" " " " "			25.00
		Sledge Hammers, Picks, Bars, # Shovels, Powder Pliers Spoons etc.			10.00
	(h)	Sledge havver handles, Bars for prying Shovels, etc. (Ten)	$0.		
	(I)	Gasoline (50 gal. per day $12.00) 25 da. Month.			300.00
		Water, for engines, Utilities etc.			25.00
		Material-	$1260.00		1535.00

$1535 per Month
at 6 Months for $9,210 - 9210.00
Total of $10,470.00

24 Six Months.

Removeable of the over burden and the ore exposed so that it will be ready to mine as by open cutting on the veins of Lead - Silver Ore.

MF-202

MF - 202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Pima, State of Arizona, described in a certain Exploration Project Contract dated 7th - Day - of - May, 1951, between YEWELL RESEARCH LAB. & CACTUS MILLING CO., the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated May - 7 - 1951, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

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

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

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

Dated this ..... day of ....., 195....

Fred W. Ficket (Law Offices)
140 N. Chruch Street
Tucson, Arizona
And

U. S. GOVERNMENT PRINTING OFFICE 940768

Fred W. Ficket as Executor of the
Estate of S. W. Purcell, Deceased.

MF-200
(April 1951)

MF - 200

Docket No. DMA 996X
Commodity Lead

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

EXPLORATION PROJECT CONTRACT [1]

It is agreed this 7 day of May ----------, 1951, between the United States of America, acting through the Department of the Interior, Defense Minerals Administration, hereinafter called the "Government," and [2] YEWELL RESEARCH LAB. -- Paul R. Yewell (Individual)
&
CACTUS MILLING CO. ---- J. S. Burbridge
R. A. Steinbacker (Co-partnership)
N. J. Colvin

hereinafter called the "Operator," as follows:

1. *Authority for contract.* This agreement is entered into under the authority of the Defense Production Act of 1950, pursuant to Mineral Order 5, entitled "Regulations Governing Government Aid in Defense Exploration Projects."

2. *Operator's property rights.* The exploration project shall be conducted on that certain property situated in the State of Arizona, County of Pima described as follows: [3] Papago Mining District - Sunshine Mine -- Range 11-E. Township 17S. - Section 12. Recorded in Book BBB Records of Mines -- Page 122 & 123

with respect to which the Operator represents and undertakes: [4]

(*a*) That he is the sole owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:

(*b*) That he is a lessee, in possession and entitled to possession, and the subordination agreement of the lessor is attached.

3. *Exploration project.* The Operator, within 30 ---------- days from the date of this contract shall commence work on a project of exploration for [5] Lead; shall prosecute the work efficiently, expertly, in a workmanlike manner, in accordance with good mining standards, with suitable and adequate equipment, materials, and labor, all properly designed to bring the project to completion within a period of [6] 6 Months from the date of this contract. The exploration project and the work to be performed are more fully described on Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, is made a part of this contract.

4. *Performance of the work.* The work shall be performed by the Operator, under his sole direction and control: *Provided,* That with the consent of the Government and its written approval of the contract or contracts, all or any part of the work may be performed by the Operator through contract or contracts with independent contractors. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

5. *Fixtures and improvements.* The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof. Attached hereto, marked "Exhibit 'B'," is a detailed list of additional facilities, buildings, and fixtures, to be purchased, installed, or erected by the Operator, with the estimated cost of each, to which the Government will contribute its agreed pro-rata share of the cost. The difference between the cost of such additional facilities, buildings, or fixtures, and the salvage value thereof at the conclusion of the work, shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

6. *Operating equipment.* Attached hereto, marked "Exhibit 'C'," is a detailed list of operating equipment divided into categories of items to be rented, purchased, or furnished by the Operator, with the allowable rental, purchase price, or rental value, as the case may be, annexed to each. As to equipment purchased for the project, the Government will contribute its agreed pro-rata share of the cost thereof, and the difference between the cost and the salvage value at the conclusion of the work shall be charged as a cost of the project to which the Government has contributed its pro-rata share.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property.
[4] Strike out the provision not applicable.
[5] Name of mineral.
[6] Not in excess of 2 years.

7. *Title to and disposition of property.* All facilities, buildings, fixtures, equipment, or other items costing more than $50 each, paid for or purchased with funds contributed jointly by the Operator and the Government, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the termination of the contract, if they have any salvage value, shall be disposed of for their joint account unless the Government, in writing, waives its interest in any such items. The Government may require the dismantling, severance from land, and removal of any such items in order to realize its interest in the salvage value thereof, and the cost of any such removal and of the disposal of the items shall be for the joint account of the parties in proportion to their respective interests.

8. *Labor and supervision.* Attached hereto, marked "Exhibit 'D'," is an itemized schedule of labor, by numbers and classes (miners, muckers, millmen, etc.), and of supervisors, by numbers and positions, with the maximum wages or salaries that may be paid to each as an allowable cost of the project.

9. *Rehabilitation and repairs.* Attached hereto, marked "Exhibit 'E'," is a detailed schedule of existing facilities, buildings, installations, and fixtures, with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition, which cost shall be allowed as a cost of the project.

10. *Allowable costs of the project.* The allowable costs of the project in which the Government will participate are limited to the necessary, reasonable, direct costs of performing the exploration work, including the costs of materials, supplies, engineering, power, water, and utilities, including items of equipment costing less than $50 each; and the costs referred to in Articles 5, 6, 8, and 9, and the exhibits annexed to and referred to in the contract. Although the Government may pay part of the cost of new or additional facilities, structures, buildings, and equipment, only the depreciation on such items, computed as indicated in Articles 5 and 6, will be charged as a cost of the project. No items of general overhead, corporate management, interest, or any other indirect costs not expressly allowed by these regulations, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

11. *Participation by the Government.* At the end of the first full calendar month after the Operator has commenced work under the project, and at the end of each succeeding calendar month, the Operator shall submit to the Government a voucher for payment with a detailed statement of work done and allowable costs (as defined in Article 10 of this agreement) incurred, in a form and with supporting data acceptable to the Government. After approving the voucher, the Government shall pay to the Operator 50 percent of the sum of such costs incurred; *Provided,* That the aggregate total of all sums paid by the Government under this agreement shall not exceed $ 5,235.00, which is 50 percent of the agreed estimated total cost of this project, $ 10,470.00.

12. *Accounts and audits.* The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract.

13. *Progress reports.* The Operator shall provide the Government with monthly reports of progress in form and content satisfactory to the Government, and upon the completion of the project or termination of the contract shall provide the Government with a comprehensive geologic and engineering report, including an estimate of ore reserves, to the best of his ability. Four copies of all reports shall be furnished to the Government.

14. *Repayment by Operator.* If, upon the completion of the exploration project or termination of the contract, the Government considers that a discovery or development has resulted from the work from which commercial production of ore may be made, the Government, within 6 months thereafter shall so certify to the Operator, particularly describing and delimiting its estimate of the discovery or the development. Thereafter, if and as ore is produced as a result of such discovery or development, the Operator and his successor in interest shall be and become obligated to pay to the Government a percentage royalty on the net smelter returns or other net proceeds realized from such ore, concentrates, or metal produced within ten (10) years from the date of this contract, until the total amount contributed by the Government, without interest, is fully repaid or said 10 years have elapsed, whichever occurs first, as follows:

Of net smelter returns or other net proceeds not in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent.

Of net smelter returns or other net proceeds in excess of eight dollars ($8.00) per ton of ore: One and one-half (1½) percent, plus one-half (½) percent additional for each full fifty cents ($0.50) in excess of eight dollars ($8.00) per ton of ore, but not in excess of a maximum of five (5) percent.

This obligation to repay from net returns or proceeds shall be and remain a claim and lien upon the property which is the subject of the exploration project and upon any production resulting from such discovery or development, in favor of the Government, until fully paid, or until said 10-year period has elapsed; and this claim and lien and the Government's right to repayment shall survive any termination of the contract, whether by completion of the exploration project or otherwise. This article is not to be construed as imposing any obligation on the Operator or his successor in interest to produce ore from any such discovery or development.

15. *No assignment of contract.* Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder.

16. *Termination and completion.* The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worthwhile discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; shall dispose of any unused materials, supplies, and equipment for the joint account of the Operator and the Government in the proportion of their respective interests; and shall pay to the Government its pro-rata share of any money remaining.

Executed in triplicate the day and year first above written.

YEWELL RESEARCH LAB.
CACTUS MILLING CO.
(Operator)

By _____

THE UNITED STATES OF AMERICA

By _____

U. S. GOVERNMENT PRINTING OFFICE 16—64066-1

(b) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and [illegible] of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Cactus Milling Co
Yewell Research Lab
(Name of company)

By R. J. Steinbacher
J. S. Lindberg
(Signature of authorized official)

May 29 - 51
(Date)

Partner
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-996 X

Date received 6/4/51

YEWELL RESEARCH LAB.
PAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (~~4) Necessity Certificate pursuant to the provisions of Sec. 124-A (Amortization Deduction) of Internal Revenue Code, 1950~~, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is 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 Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: 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)
Paul R. Yewell	Individual						
636 W. Oro Road-Tucson.							
J. S. Burbridge							
R. A. Steinbacker	Partership						
N. J. Colvin							
Box 966-Tucson							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. 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	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

YEWELL RESEARCH LAB.
&

CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 996

GENERAL TECHNICAL DATA.

1. (a) Lead, Silver --- Lead-Silver Con.
(b) Ground and screen blue limestone.

2. Name - Sunshine Orebody # One
Type - Open cut
Mill - Dry grind
Smelter -None
Refinery - None
Pits - One small (Not in use)
Quarry - One
Drilling Operations (Open cut and quarring)
Old names - Always Old Sunshine Workings. Since 80's
Extent of work - Old map of 1920 included.

(a) About 400 feet.

(b) About 150 feet.

(c) About 400 feet.

(d) Several openings along surface for 1,000 feet and to a depth of 75 feet. As explained in U. S. Geog. Sur. Bull # 725 and Report by Mr. O. R. James - Find enclosed.

The mine is not flooded and no pumping problems are expected.

Production capacity 25 to 100 tons per day. Milling Ore.

3. (a) 43 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britten's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road. Givang two outlets from the mine. The road to Britten's Ranch is very good, and is only fair the last two miles on up the Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

(b) Papago Mining District of the Sierrita Mountains, Pima County, Arizona.
(c) Range 11 - E & Township 17 S. -- Section # 12.
(d) Pima County, Arizona

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # ~~966~~ 986

4. (a) Property is not in operation.
(b) Lessee.

5. Can not answer (Has been worked off and on since 80'S. Soon (about July 1st.)

6. Mr. Paul R. Yewell 636 W. Oro Road - Tucson, Ariz.
Mining Engineer
Owner and operator of The Yewell Research Lab.

Mr. J. S. Burbridge
Mine Operator (2 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.

Mr. R. A. Steinbacker
Mechanic (Business and store operator)

Mr. N. J. Colvin (Retired Lumber Businessman)

7. (a) "Ore Deposits of the Sierrita Mountains" By F. L. Ransome
One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine By C. H. James
Copy enclosed.

Repo rt of Sunshine Mine " Glory Hole" By H. C. Ertel
Copy enclosed.
Available maps and drawings enclosed.
Reason for past suspension of work, " Lack of enough Water".

(b) Banner Mine -- U. S. Geog. Surv. Bull. # 725

(c) Available reports and maps enclosed.

8. Not a Corporation. Names are on Form MF-100

9. None.

10. Lead-Silver (Do not know production of 1948,49,50,
Do not know
Do not know.

11. Yes! 25 tons per day for 25 working days per month.
Milling ore

12. U. S. Geog. Surv. Bull. 725 Sunshine Mine.
Preliminary Notes -- By C. H. James

(b) Map enclosed.

YEWELL RESEARCH LAB.

&

CACTUS MILLING CO.

BOX 966

 TUCSON, ARIZONA DMA DOCKET # 996

12. (b) Cont. Taken from old reports enclosed.

13. 43 Miles to Tucson, Arizona -- Gravel road on Sasabe road to Three Points, then paved highway to Tucson.
Mountain roads from Mine to Sasabe road in fair condition.

14. Water for domestic use for all seasons of year. In Ash Canyon.
Plenty of water for engines and machinery.
None needed for milling operations.

15. One 25 KW Gas-Elec. Gen.
One 7.5 KW Gas-Elec. Gen.
One 8 Chrysler Engine Power unit. (Rod Mill and Crushers)
One V-8 Ford Power Unit. (Crusher)

16. Needed - 8 miners, muckers, - 2 mill men, 1 labor
(recent representative payroll period, One Labor.)

17. Two cabins in good condition, one equip. for living at present time, the other needs stove, beds, and household equipment.
Well in Ash Canyon for domestic water.

One Complete Mill now in full operation.
One 60 ton Bin
One 8 x 10 Jaw Crusher
One Rod Mill
One set of rolls
3 Screens for classify
5 Small Bins
Five Tables for seperation of ore from waste and all necessary elec. equipment.
One 7.5 KW Gas-Elec. Gen.
One 25 KW Gas-Elec. Gen.

18. None that we know of.

YEWELL RESEARCH BAR.

CACTUS MILLING CO.

LEAD ORE
Galena - Cerussite
Sunshine Mine # 1, Ariz. DMA Docket # 996

SCREEN ANALYSIS & ACCOUNTABILITY

Size Mesh		Pounds Gross Wt.	Percent Total Wt.	Sample Wt. Lbs	Net Wt. Pounds	Percent Net Wt.	
-20	-40	672.0	32.821	5.5	666.5	32.923	#Assayed
-40	-60	628.0	30.672	4.0	624.0	30.822	1.12% of
-60	-80	93.0	4.542	4.0	89.0	4.396	total Weight
-80	-100	92.0	4.493	3.5	88.5	4.372	##Pounds for
-100		562.5	27.475	6.0	556.5	27.486	which accoun
TOTALS		2047.5	100.000	23.0 #	2024.5 ##	99.999	table.

PRODUCTS

Size Mesh	Pounds	Dust	Net Wt	% Total	Pounds	% Total	Lbs.	% Total	Lbs.	% To
	HEADS				TAILS		MIDS		CONS.	
Size Mesh	Pounds	Dust	Net Wt	% Total	Pounds	% Total	Lbs.	% Total	Lbs.	% Total
-20 - 40	666.5	21.5	645.0	34.037	497.0	30.342	64.5	38.856	83.5	37.868
-40 +60	624.0	27.0	597.0	31.504	514.0	31.380	59.0	23.494	44.0	19.955
-60 - 80	89.0	4.0	85.0	4.485	41.5	2.532	17.5	10.542	26.0	11.791
-80 -100	88.5	1.5	87.0	4.591	49.5	3.022	15.0	9.036	22.5	10.204
-100	556.5	75.5	481.0	25.383	406.5	24.817	30.0	18.072	44.5	20.182
TOTALS	2024.5	129.5	1895.0	100.000	1508.5#	------	166.0	100.000	220.5	100.000
Dust	----------				129.5	7.906	----------			
Net	2024.5	----	1895.0	100.000	1658.0	100.000	166.0	100.000	220.5	100.000
% Tot. Wt.			100.00			80.91		8.20		10.89

#1508.5 pounds of tails sampled and assayed. Dust considered as tails.

DISTRIBUTION OF VALUES -- RECOVERY

PRODUCTS		LEAD			SILVER			GOLD		
Final Products	Weight Pounds	Assay %	Factor	% Total Value	Oz. Assay	Factor	% Total Value	Assay Oz.	Factor	% Total Value
TAILS	1508.5	0.6	905.1	5.744	0.4	603.4	8.938	Tr.	XXX	XXX
Mids	166.0	3.4	564.4	3.582	1.7	282.2	4.180	0.005	0.830	2.236
Cons	220.5	64.[illegible]	14288.4	90.674	26.6	5865.3	86.882	0.160	36.280	97.763
Totals	1895.0	----	15757.9	1000000	---	6750.9	100.000	------	37.110	100.000
HEADS	#2024.5	7.78			3.04			0.019	#Computed	
TAILS	#1639.0	0.557			0.32			xxxxx	#Computed	

NOTE 90.67 % of the lead, 86.88 % of the silver, and 97.76 % of the gold were put into 10.89 % of the weight.

YEWELL RESEARCH LABORATORY
16th June 1959

By Joe E. Bacon
c/o Merritt Jones Hotel,
Ocean Park,
Calif.

Who Worked in Sunshine Mine 1943

REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. C. Ertel Dec. 16, 1947

"COPY"

After 60 days of work sampling and looking over this one Claim My report are facts. I have seen for the future of the Properity as a mine.

The ore showing is enough to warrant a 15 ton mill Per 24 hr. day running. With Present water supply it may be possible to mill 20 ton by saveing 25% of the water.

The cost of developing more water is to large at this time to Pay.

By working the ore as an open pit mine a small cost for man power and over head is possible.

The Present ore values are on top level and little waste needs to be moved.

The water supply now on hand is about 9 gal. per min. This amount (at three parts water one of solids) will grind and save the avg. of 87% of the values from about 17 1/4 ton of ore Per 24 hrs. milling.

It is possible to set such a mill in place for the Cost and sale of the Present Equipment on hand.

This machinery here now will not save the values in this ore and the water supply is not enough to run more than 3 hrs. per day.

The cost of power and over head is far above the values saved

The best plan is to put in a small 15 or 20 ton Ball mill

REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. O. Ertel "COPY" Dec. 16, 1947

out all cost o f labor to the last cent needed and use good ore to mill dump all ore or Rock below $10.00 values and ship all High grade Picked lead.

In doing this a lot of development can be done and the values shall pay the expenses.

This report is backed by a sample ton of ore ship from here grossing $117.00 per ton. Assay - Lead 44.1 %
Silver 18/1 Oz.

By: H. O. Ertel

Copy

PRELIMINARY NOTES

ON THE

SUNSHINE - SUNRISE MINES

PAPAGO MINING DISTRICT, PIMA COUNTY, ARIZONA

JULY 30, 1920

The holdings of this consolidation comprises sixteen contiguous lode mining claims and two millsites of an approximate area of 300 acres, situated on northwesterly foothill spurs of the Sierreta Mountains and about 34 miles southwesterly by highway and a fair desert road from Tucson.

The principal silver-lead lode and some of the subordinate veins have been intermittently worked for high grade ores over a peroid of many years, but no comprehensive develo pment and operating policy on a scale justified by the large showings and indications, has been pursued.

These holdings occupy almost a mile of one of the most highly mineralized belts in the section. The main line of ore bodies occur along a strata of tilled, fractured and silicified limestone, streaked, seamed and impregnated with Argentiferous galena in generally payable proportions. The limestone is intruded by wide and narnarrow sills and dikes of andesite which have influenced mineralization from below, and the formation abuts against an Alaskite granite-perphyry which in itself contains copper and silver bearing veins of considerable promise.

"SUNSHINE OREBODY"

This is opened at and near suface for a continious length of 1,000 feet by shallow and deep trenches and prospect shafts and by faces and inclines cut into the side and end of a limestone bluff which is, in large part, of very good milling grade. The northern portion of these surface exposures prove a general width of from 7 feet to 15 feet of

mixed carbonate and galena ore. Near the center of this continious ore shoot, a shaft is sunk 130 feet showing at 100 feet level crosscuts 40 feet wide of medium to low grade material. A Winze sunk 25 feet below the level is sunk on good pay ore for its full width, there being a noticable increase in proportion of silver to lead.

The open faces, cuts and inclines in a limestone bluff near the southern end of the 1000 feet of ore opened to date, expose andfollows a solid face of galena carbonate limestone ore 40 feet wide at right angles to dip and over 50 feet are exposed. This is all good average milling value with segreation streaks of solid galena up to 15 inches wide.

The width, even mineralization and generally uniform and payable value of this ore-exposure is impressive and alone merits the vigorous continued development and operation of this property.

About 200 feet south of this cliff exposure and about 100 feet vertically below it, in Ash Canyon, a tunnel has been driven along the foot wall of the main ore-bearing limestone mass and at 110 feet from portal ore of similar good grade has opened by an 18 foot raise and a 30 foot winze. The adit drift continues in ore for 40 feet and then follows foot-walls schist. Crosscuts and drift crosscuts off this exposed ore of low grade and in places high grade, but practically all of this work has been badly laid out and the main ore bodies exposed at surface have not yet been properly explored for at the tunnel level. The chatacter and grade of the ore partly opened to date together with that opened in the deepest workings of No. 1 shaft, coupled with the structure great size, length and structural condition of the orebearing zone, promise continutiy of size and value with depth. In fact deep develo pment of similarly conditioned ore occurences in the neighboring Twin Buttes, Mineral Hill camps has proved these orebodies to increase in size and value with depth and there are good reasons to expect same of the Sunshine orebodies.

The ore is of uniform character consisting of partly silicified, dark limestone, with streaks of guarts and calcite and a heavy mineralization as streads, bunches and impregnations of galena witha little pryite and a very little zinc. Near surface part, but not a preponderance, of lead occurs as carbonate. Without a very thorough sampling of the whole it is impossible to state the exact average lead-silver and content of the exposed ores, but it is very safe to approximate the general tenor of the whole at $1.00 Gold - 7 oz. Silver - 8% Lead. Taking Silver at a paid price of 95 cents and lead at a paid price of 6 cents per pound less 2%deduction, this would show a gross paid for general value of $1.00 Gold $6.65 silver and $7.20 lead netting 6 cents per pound, or a total of $14.85 per ton. Much of the ore exposed carries considerably higher values especially in silver, and I consider this working approxination conservative for a preliminary basis of consideration.

The Quantity of ore in this one continious ore shoot as partly proven and assured, but not yet fully blocked out by drifts and rises, etc/, can be safely estimated to contain for 1,000 feet opened at surface and to a depth of only 75 feet, and for an estimated minimum average width of 12 feet, to contain a recoverable and "paid for" value on above metal prices of $14.85 per ton) allowing 12 cub. ft. per ton)or a total recoverable value of $1,113, 750 in this ore shallow zone.

C O S T S

Working conditions are excellent and compare favorably with any camp in the region. The ore will be cheaply mined and milled and a high percentage recovery will be obtained by medium crushing and straight concentration or Floatation - The latter preferable when the part carbonate ores have been depleted.

The ratio of concentration will be about 7 to 1 on the general grade of ore exposed.

Following further developement and putting the mine in shape for continued and extensive mining and milling, a 100 ton per day treatment plant could be safely installed.

On foregoing estimates of average recoverable values of $14.85 and estimating a total expense on mining and milling and marketing concentrate of $5.50 per ton; crude ore the estimated working profit would be $8.85 per ton crude, or a total working profit of $701,250 from this block of ground.

The above approximation applies soley to the superficial ores as above demarcated. There is every reason to expect that further and deeper developement, both in this locality and at other points in this property, will prove up to a tonnage of ore out of all proportion to that approximated above.

It is likely that when developement proceeds below water level and the partly leached surface zone expored to date, values, particularly silver, will increase. In this connection it is noticable that the ratio ofsilver to lead had increased in the lowest shaft winze workings.

With some improvement to old road, necessited by washouts, Tucson will be brought within a good truck haulage of 34 miles.

Water supply is assured from future mine workings and by development of water bearing kaolin belt, paralleling the Sunshine vein.

In adition to the main Sunshine silver-lead vein, several other ore occurences warrant developement, particularly a copper silver-gold bearing contract travrsing the central Sunrise claims and partly opened by ### inclined shafts, cuts and tunnels, which show bunches and streaks of oxidized and sulphide copper silver ores of good grade.

The Foregoing provisional notes are based on several days inspection of the property and a general study of the locality.

Values have been arrived at from creditable previous samples and a very moderat amount of sampling by myself. A thorough eximination and sampling would certainly enable a more definate statement of the property and very probably a largely amplified approximation of ore tonnage and ore values.

I confidently recommend this property as a sound development and operating undertaking having an unusually large amount of ore opened for the development accomplished to date.

(Signed) C. H. James

July 30, 1920
Tucson, Ariaona

(This is a copy)

"From"

Nolen L. McLean
Attorney at Law
30 N. Church St.
Tucson, Arizona.

Page # 1

Recored # 29591
Book # 283
Page # 152

DMA DOCKET # 996

OPERATING AGREEMENT (Copy)

KNOW ALL MEN BY THESE PRESENTS: That on this 17 day of July, 1950, the Cactus Milling Co., a co-partnership composed of Norris J. Colvin, Robert A. Steinbacker, and Jonathon Burbridge, hereinafter called the "Miller", and Paul R. Yewell doing business as the Yewell Research Laboratory, hereinafter know as the "Concentrator", and Fred W. Pickett as Executor of the Estate of S. W. Purcell, Deceased, and Fred W. Pickett, an individual, hereinafter known as the "Landlord", and Walter M. Calvert, hereinafter known as the "Tenant", make and enter into an agreement as follows, to-wit:

(1) The Landlord consents to the terms of this contract and the covenants hereinafter set out.

(2) The Miller covenants and agrees to install a crushing, grinding, and screening mill on property demised by the Tenant herein, for the purpose of crushing, grinding, and screening ore from the Sunshine Mine, which said mill shall have a minimum capacity of twenty-five (25) tons per day, and to crush, grind, and screen ore supplied by the Tenant, and shall deliver the same to the Concentrator.

(3) The Concentrator herein agrees to separate, concentrate, and deliver said concentrates to the concentrate bin.

(4) The cost of sacks and sacking and transporting the concentrates from the mill to the smelter or other market and the treatment at the smelter will be borne equally by the Landlord and the Tenant on the one hand and the Miller and the Concentrator on the other hand. The separated and concentrated products, containing

OPERATING AGREEMENT (Copy)

valuable minerals produced by the said concentration, shall be sacked by the Miller, and the Landlord will receive ten (10%) percent and the Tenant will receive forty (40%) per cent of the net smelter return, and the Miller will receive twenty-five (25%) per cent of the net smelter return, and the Concentrator will receive twenty-five (25%) per cent of the net smelter return.

(5) The Tenant agrees that he will supply Twenty-Five ($25.00) Dollar ore which averages not less than Twenty-Five ($25.00) Dollars per ton in value, which averages will be computed on the basis of periods of sixty (60) days each, to the Miller, that he will supply not less than twenty-five (25) tons per day for not less than twenty-five (25) days per month, that he will put the ore in the bin of the Miller so sized that it will pass through the grizzley, provided that if said Tenant fails for a period of sixty (60) days, unless excused by Act of God or circumstances beyond his control, from delivering the minumum quantity of ore hereinbefore recited, ~~at~~ then and in that event, the Landlord agrees and the Tenant agrees that the Miller may take over the operation of said mine and succed to all the rights, duties, privileges, and liabilities of the Tenant in and to the Lease hereto fore entered into between the Landlord and Tenant.

IN WITNESS WHEREOF, the parties have hereunto set their hands this 17 day of July, 1950.

Signed Merris J. Colvin

Signed Jonathan Burbridge

Signed Robert A. Steinbacker

MILLER

DMA DOCKET # 996

OPERATING AGREEMENT (Copy)

YEWELL RESEARCH LABORATORY

Signed By Paul R. Yewell
PAUL R. YEWELL

CONCENTRATOR

SIGNED Fred W. Fickett
Fred W. Fickett, ad Executor of the Estate of S. W. PURCELL, Deceased

Signed Fred W. Fickett
Fred W. Ficket, an individual

LANDLORD

Signed Walter N. Calvert
Walter N. Calvert

TENANT

"FROM"

Law Offices Of
Fred W. Fickett
140 North Church Street
Tucson, Arizona

DMA DOCKET # 966

(Copy)

ASSIGNMENT

I, WALTER N. CALVERT, do hereby transfer, assign, convey and set over to ROBERT STEINBACKER, NORRIS COLVIN, PAUL VEWELL and J. S. BURBRIDGE, hereinafter referred to as "Buyers," that certain Lease and option entered into by and between Fred W. Fickett and Fred W. Fickett as Executor of the Estate of S. W. Purcell, Deceased, as parties of the first part, and Walter N. Calvert, as party of the second part therein, and covering those certain umpatented mining claims, two mill sites and water right located in the Papago Mining District in Pima County, Arizona and generally known as the Sunshine, Sunrise and Sunbeam group of mining claims, mill sites and water right, and I do also hereby convey to said Buyers all of the property described in said Lease and Option, and I do hereby expressly consent that the parties of the first part in said Lease and Option shall make their deed direct to the Buyers herein when and if the purchase price provided for therein has been paid in full.

IT IS UNDERSTOOD AND AGREED THAT THE Buyers shall pay to me the sum of $300.00, payable by transferring and paying to me five per cent (5%) of the net smelter or mill returns on all ore or concentrates hereafter shipped from the property described in said Lease and Option until the said $300.00 shall have been paid in full, and for said consideration I do also agree to sell and convey to the Buyers herein the ore bin which I have erected on said property, but the title to said ore bin shallremain in me until said $300.00 is paid in full, and if the Buyers herein fail to pay said $300.00 within six months from this date, the title to said ore bin

ASSIGNMENT

shall revert absolutely to me, and the Buyers shall forfeit all sums paid under this Assignment as liquidated damages.

The Buyers do hereby agrdd to carry out all the terms and conditions of said Lease and Option hereinbefore referred to as required of the party of the second party therein and to relieve and hold harmless said second party thereon.

WITNESS my hand at Tucson, Arizona this 11th day of December, 1950.

Signed Walter N. Calvert
Walter N. Calvert

We, the undersigned Buyers in the foregoing assignment do hereby agree to and approve of all of the terms and conditions set forth therein.

WITNESS our hands at Tucson, Arizona, this 11th day of December, 1950.

Signed Robert Steinbacher
Robert Steinbacher

Norris J. Colvin
Norris Colvin

PAUL YEWELL

By Robert Steinbacher
His Agent

J. S. Burbridge

By Robert Steinbacher
His Agent

STATE OF ARIZONA)
County of Pima) ss.

The foregoing instrument was acknowledged before me this 11th day of December, 1950, by Robert Steinbacher and Norris Colvin, individually, and by Robert Steinbacher as agent for Paul Yewell and by Robert Steinbacher as agent for J. S. Burbridge, and by Walter N. Calvert. -- Erna N. Sornberger -- Notary Public. --

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. dma-996 X

Date received 6/4/51

Participation

YEWELL RESEARCH LAB.
PAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

FILL IN THIS BLOCK

Date of application May - 7 - 1951

Estimated cost $10,470.00

Mineral or metal Lead - Silver

Percentage of Government participation 50%

Location of mine Pagago Mining District, Pima County, Arizona
R. - 10 E.
T. - 17 S. (Section 12)

Date of filing MF-100 May - 7 - 1951

DMA Docket Number, if available 996 X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Cactus Milling Co - Yewell Research Lab
(Name of company)

R. J. Steinbacher
(Signature of authorized official)

May 29 - 57
(Date)

J. E. Bridge
Partner
(Title)

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

*Same as footnote on page 1.

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

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 966

1 Individual and Partnership
Paul R. Yewell as an individual
Cactus Milling Co. as a partnership

2 Partnership
J. S. Burbridge
R. A. Steinbacker
N. J. Colvin (P. O. Box # 966 Tucson, Ariz.)

3 None

4 (a) Mr. Paul R. Yewell 836 W. Oro Road Tucson, Arizona
Mining Engineer
Owner and operator of The Yewell Research Lab.
(b) Mr. J. S. Burbridge
Mine Operator (2 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.
Mr. R. A. Steinbacker
Mechanic (Business and store operator)
Mr. N. J. Colvin (Retired Lumber Businessman)

5 Lessee

6 Not Owner

7 Copy of Lease and licenor in good standing.

8 Machinery and equipment, Mill and Milling Supplies are all paid for, at present value of about $20,000.00 Each

9 $5,000.00

10 (a) Sunshine # 2, This claim joins The Sunshine # 1. (Real Prop.) The work is to open up the upper part of the vein above the portal of the old tunnell, and make an open cut mine.
(b) On Sunshine # 2 which contunues on from Sunshine # 1, which starts at Ash Creek. No maps of Sunshine # 2 available.

11 Sunshine and Sunbeam group of mining claims, always have been under these names.

12 45 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britton's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road.

Giving two outlets from the mine. The mine ###### road to Britten's Ranch is very good, and is only fair the last two miles on up th The Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

13 Water is available for domestic purposes from the wells in the bottom of Ash Creek.
(b) One Ford V-8 Power Unit and One Gaoline Jack Hammer Gas. consumation about 4 gal. per Hour.

14 One new ore shoot, in good condition, only needs a gate, car and about 150 feet of tract. Capacity about 25 tons.

15 The Ore will be Milled on the Sunshine # 1 Claim by Yewell Research Lab. and The Cactus Milling Co. , Under new Patients by Mr. P. R. Yewell, No water will be used and a test run on this ore on 16th of June 1950 is attached.
The Cons. will be sacked and trucked to Tucson and shipped to a Smelter.

16 "Ore Deposits of the Sierrita Mountains" by F. L. Ransome
One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine by C. H. James
Copy enclosed.

Report of Sunshine Mine "Glory Hole" By H. C. Ertel
Copy enclosed.

Available maps and drawings enclosed.

Reason for past suspension of work, " Lack of enough Water".

(b) Banner Mine) U. S. Geog. Surv. Bull. #725
University of Arizona

(c) Copy of test run on the average ore from the Sunshine # 1 Claim. Find Enclosed.

17 Not in production.

18 U. S. Geog. Surv. Bull # 725 and reports enclosed along with maps.

19 Very good climate.

20 Lead-Silver Ore Mostly Lead. Opinion of all mining men that have seen the property. There is another Blow out of Lead Silver Ore under the Lime Guarts Capping.

21 To remove the wast material by quarring method. Wasts material to be dumped down the canyon or possibly used to make new roads and improve the old ones later on. About 6 months.

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.

22 The same formation at the start of the claim and very similiar to Sunshine # 1. The Silver content is strong about 3 to 5 ozs more than Sunshine # 1 and the Lead content shows 3 to 5% more lead. U. S. Geog. Surv. Bull # 725. No supportings maps available.

THE REQUIREMENTS AND COSTS

			Miner --- Mucker	Day	Month
# 23	(a)	5 men:	one --- Two		
		One	Miner	$15.00	$375.00
		Two	Muckers---	$20.00	$500.00
	(b)	One Superintendent			$300.00
			Material		
	(c)	Ore gate - car & Track 12 pieces Lumber 2 x 6 x 18 ft. for bin and shoot now on property.	$150.		
	(d)	Primary Jay Crusher (Used)	500.		
	(e)	One Warsop power Tools Rock Drilling. To use in operating as an open cut mine.	600.		
	(f)	None.			
	(g)	Ford V-8 Power unit Rent			$4
		" " " " "			25.00
		Sledge Hammers, Picks, Bars, Shovels, Powder Pliers Spoons etc.			10.00
	(h)	Sledge hawver handles, Bars for prying Shovels, etc. (Ten)	$0.		
	(I)	Gasoline (50 gal. per day $12.00) 25 da. Month.			300.00
		Water, for engines, Utilities etc.			35.00
		Material-	$1260.00		1535.00

$1535 per Month
at 6 Months for $9,210 - 9210.00
Total of $10,470.00

24 Six Months.

Removeable of the over burden and the ore exposed so that it will be ready to mine as by open cutting on the veins of Lead - Silver Ore.

MF - 202

Pima Arizona

7th - Day - of - May 1

YEWELL RESEARCH LAB. & CACTUS MILLING CO.

May - 7 -

1951

Fred W. Picket (Law Offices)
140 N. Church Street
Tucson, Arizona
And

Fred W. Picket as Executor of the
Estate of S. W. Purcell, Deceased.

7 May ---------- 1

YEWELL RESEARCH LAB. -- Paul R. Yewell (Individual)
&
CACTUS MILLING CO. ---- J. S. Burbridge
R. A. Steinbacker (Co-partnership)
M. J. Colvin

Arizona Pima Papago Mining District - Sunshine Mine -- Range 11-E. Township 17S. - Section 12.
Recorded in Book BBB Records of Mines -- Page 122 & 133

30 ---------
Lead

6 Months

(b) If deposit is other than pla

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(c) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Cactus Milling Co
Yerwell Research Lab
(Name of company)

By R. G. Steinbacher
(Signature of authorized official)

May 29-51
(Date)

Partner
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. dma-996 X

Date received 6/4/51

YEWELL RESEARCH LAB.
PAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, ~~(4) Necessity Certificate pursuant to the provisions of Sec. 124 A (Amortization Deduction) of Internal Revenue Code, 1950,~~ (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:
   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

JUN 1951

16—63792-1

5

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is 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 Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: 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)
Paul R. Yowell	Individual						
630 E. Ore Road-Tucson							
J. S. Burbridge							
R. A. Steinbacher	Partnership						
E. J. Colvin							
Box 906-Tucson							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. 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	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 996

GENERAL TECHNICAL DATA.

1. (a) Lead, Silver --- Lead-Silver Con.
(b) Ground and screen blue limestone.

2. Name - Sunshine Orebody # One
Type - Open cut
Mill - Dry grind
Smelter - None
Refinery - None
Pits - One small (Not in use)
Quarry - One
Drilling Operations (Open cut and quarring)
Old names - Always Old Sunshine Workings. Since 80's
Extent of work - Old map of 1920 included.

(a) About 400 feet.

(b) About 150 feet.

(c) About 400 feet.

(d) Several openings along surface for 1,000 feet and to a depth of 75 feet. As explained in U. S. Geog. Sur. Bull # 725 and Report by Mr. C. H. James - Find enclosed.

The mine is not flooded and no pumping problems are expected.

Production capacity 25 to 100 tons per day. Milling Ore.

3. (a) 43 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britten's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road. Giving two outlets from the mine. The road to Britten's Ranch is very good, and is only fair the last two miles on up the Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

(b) Papago Mining District of the Sierrita Mountains, Pima County, Arizona.
(c) Range 11 - E & Township 17 S. -- Section # 12.
(d) Pima County, Arizona

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

 DMA DOCKET # ~~966~~ 796

4. (a) Property is not in operation.
(b) Lessee.

5. Can not answer (Has been worked off and on since 80'S. Soon (about July 1st.)

6. Mr. Paul R. Yewell 636 W. Oro Road – Tucson, Ariz.
Mining Engineer
Owner and operator of The Yewell Research Lab.

Mr. J. S. Burbridge
Mine Operator (2 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.

Mr. R. A. Steinbacker
Mechanic (Business and store operator)

Mr. N. J. Colvin (Retired Lumber Businessman)

7. (a) "Ore Deposits of the Sierrita Mountains" By F. L. Ransome
One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine By C. H. James
Copy enclosed.

Repo rt of Sunshine Mine " Glory Hole" By H. C. Ertel
Copy enclosed.
Available maps and drawings enclosed.
Reason for past suspension of work, " Lack of enough Water".

(b) Banner Mine -- U. S. Geog. Surv. Bull. # 725

(c) Available reports and maps enclosed.

8. Not a Corporation. Names are on Form MF-100

9. None.

10. Lead-Silver (Do not know production of 1948,49,50,
Do not know
Do not know.

11. Yes! 25 tons per day for 25 working days per month.
Milling ore

12. U. S. Geog. Surv. Bull. 725 Sunshine Mine.
Preliminary Notes -- By C. H. James

(b) Map enclosed.

YEWELL RESEARCH LAB.

&

CACTUS MILLING CO.

BOX 966

TUCSON, ARIZONA

 DMA DOCKET # 996

12. (b) Cont. Taken from old reports enclosed.

13. 43 Miles to Tucson, Arizona -- Gravel road on Sasabe road to Three Points, then paved highway to Tucson.
Mountain roads from Mine to Sasabe road in fair condition.

14. Water for domestic use for all seasons of year. In Ash Canyon.
Plenty of water for engines and machinery.
None needed for milling operations.

15. One 25 KW Gas-Elec. Gen.
One 7.5 KW Gas-Elec. Gen.
One 8 Crysler Engine Power unit. (Rod Mill and Crushers)
One V-8 Ford Power Unit. (Crusher)

16. Needed - 3 miners, muckers, - 2 mill men, 1 labor
(recent representative payroll period, One Labor.)

17. Two cabins in good condition, one equip. for living at present time, the other needs stove, beds, and household equipment.
Well in Ash Canyon for domestic water.

One Complete Mill soon in full operation.
One 60 ton Bin
One 8 x 10 Jaw Crusher
One Rod Mill
One set of rolls
5 Screens for classify
5 Small Bins
Five Tables for seperation of ore from waste and all necessary elec. equipment.
One 7.5 KW Gas-Elec. Gen.
One 25 KW Gas-Elec. Gen.

18. None that we know of.

YEWELL RESEARCH LAB.

CACTUS MILLING CO.

LEAD ORE
Galena - Cerussite
Sunshine Mine # 1, Ariz.

DMA Docket # 996

SCREEN ANALYSIS & ACCOUNTABILITY

Size Mesh	Pounds Gross Wt.	Percent Total Wt.	Sample Wt. Lbs	Net Wt. Pounds	Percent Net Wt.	
-20 -40	672.0	32.821	5.5	666.5	32.923	#Assayed
-40 -60	628.0	30.672	4.0	624.0	30.822	1.12% of
-60 -80	93.0	4.542	4.0	89.0	4.396	total Weight
-80 -100	92.0	4.493	3.5	88.5	4.372	##Pounds for
-100	562.5	27.473	6.0	556.5	27.486	which accoun
TOTALS	2047.5	100.000	23.0 #	2024.5 ##	99.999	table.

PRODUCTS

Size Mesh	HEADS Pounds	Dust	Net Wt	% Total	TAILS Pounds	% Total	MIDS Lbs.	% Total	CONS. Lbs.	% Total
-20 - 40	666.5	21.5	645.0	34.037	497.0	30.342	64.5	38.856	83.5	37.868
-40 +60	624.0	27.0	597.0	31.504	514.0	31.380	39.0	23.494	44.0	19.955
-60 - 80	89.0	4.0	85.0	4.485	41.5	2.552	17.5	10.542	26.0	11.791
-80 -100	88.5	1.5	87.0	4.591	49.5	3.022	15.0	9.036	22.5	10.204
-100	556.5	75.5	481.0	25.383	406.5	24.817	30.0	18.072	44.5	20.182
TOTALS	2024.5	129.5	1895.0	100.000	1508.5#	------	166.0	100.000	220.5	100.000
Dust	----	----	----	----	129.5	7.906	----	----	----	----
Net	2024.5	----	1895.0	100.000	1638.0	100.000	166.0	100.000	220.5	100.000
% Tot. Wt.			100.00			80.91		8.20		10.89

#1508.5 pounds of tails sampled and assayed. Dust considered as tails.

DISTRBUTION OF VALUES -- RECOVERY

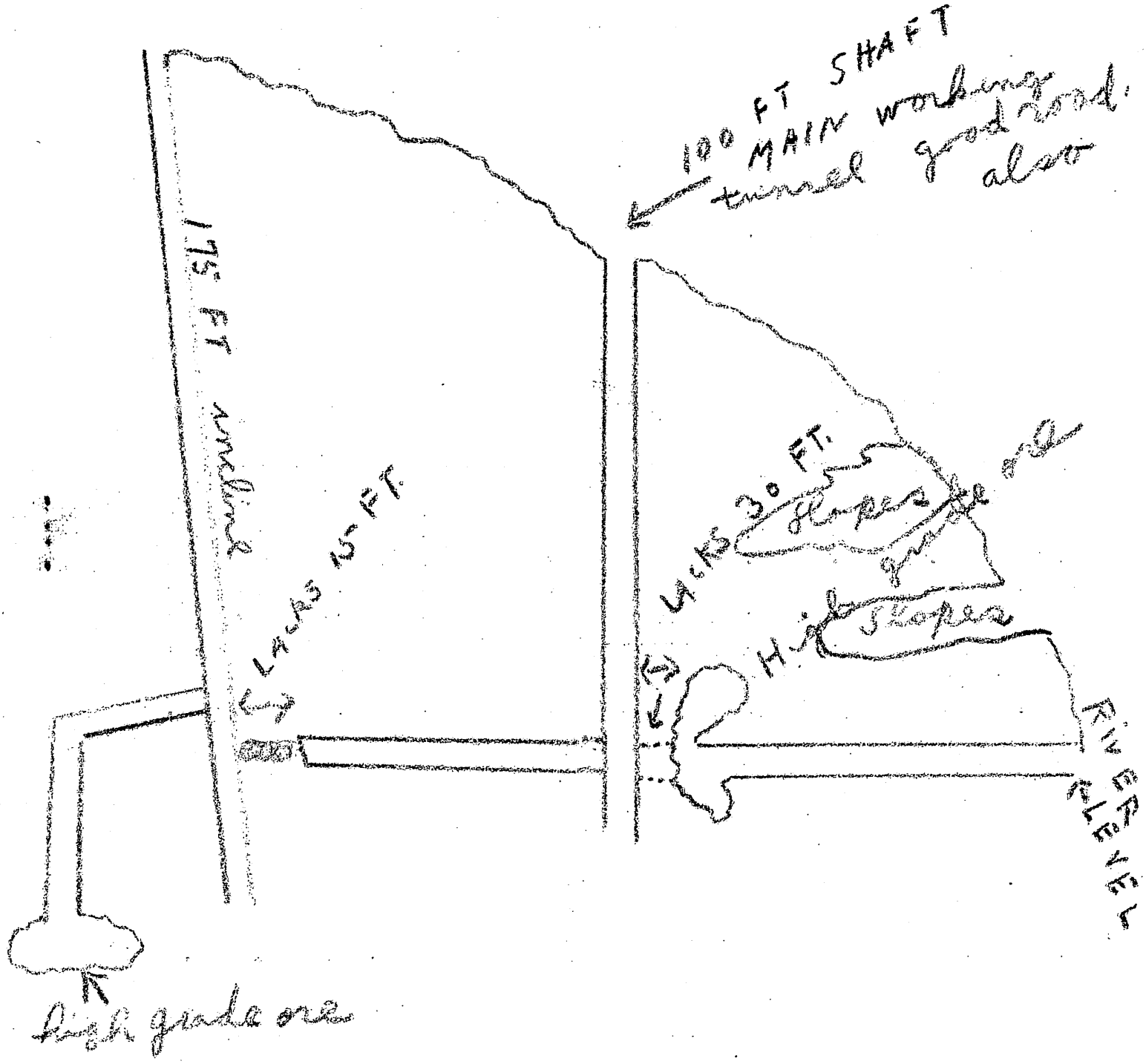
PRODUCTS Final Products	Weight Pounds	LEAD Assay %	Factor	% Total Value	SILVER Oz. Assay	Factor	% Total Value	GOLD Assay Oz.	Factor	% Total Value
TAILS	1508.5	0.6	905.1	5.744	0.4	603.4	8.938	Tr.	XXX	XXX
Mids	166.0	3.4	564.4	3.582	1.7	282.2	4.180	0.005	0.830	2.236
Cons	220.5	64.8	14288.4	90.674	26.6	5865.3	86.882	0.160	36.280	97.763
Totals	1895.0	----	15757.9	1000000	---	6750.9	100.000	-----	37.110	100.000
HEADS	#2024.5	7.78			3.04			0.019		#Computed
TAILS	#1639.0	0.557			0.32			xxxxx		#Computed

NOTE 90.67 % of the lead, 86.88 % of the silver, and 97.76 % of the gold were put into 10.89 % of the weight.

YEWELL RESEARCH LABORATORY
16th June 1950

By Jos E. Bacon
c/o Merritt Jones Hotel,
Ocean Park,
Calif.

Who Worked in Sunshine Mine 1943



REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. C. Ertel Dec. 16, 1947

"COPY"

After 60 days of work sampling and looking over this one Claim My report are facts. I have seen for the future of the Properity as a mine.

The ore showing is enough to warrant a 15 ton mill Per 24 hr. day running. With Present water supply it may be possible to mill 20 ton by saveing 25% of the water.

The cost of developing more water is to large at this time to Pay.

By working the ore as an open pit mine a small cost for man power and over head is possible.

The Present ore values are on top level and little waste needs to be moved.

The water supply now on hand is about 9 gal. per min. This amount (at three parts water one of solids) will grind and save the avg. of 87% of the values from about 17 1/4 ton of ore Per 24 hrs. milling.

It is possible to set such a mill in place for the Cost and sale of the Present Equipment on hand.

This machinery here now will not save the values in this ore and the water supply is not enough to run more than 3 hrs. per day.

The cost of power and over head is far above the values saved

The best plan is to put in a small 15 or 20 ton Ball mill

REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. C. Ertel "COPY" Dec. 16, 1947

cut all cost o f labor to the last cent needed and use good ore to mill dump all ore or Rock below $10.00 values and ship all High grade Picked lead.

In doing this a lot of development can be done and the values shall pay the expenses.

This report is backed by a sample ton of ore ship from here grossing $117.00 per ton. Assay - Lead 44.1 %
Silver 18/1 Oz.

By: H. C. Ertel

Copy

PRELIMINARY NOTES

ON THE

SUNSHINE - SUNRISE MINES

PAPAGO MINING DISTRICT, PIMA COUNTY, ARIZONA

JULY 30, 1920

The holdings of this consolidation comprises sixteen contiguous lode mining claims and two millsites of an approximate area of 300 acres, situated on northwesterly foothill spurs of the Sierreta Mountains and about 34 miles southwesterly by highway and a fair desert road from Tucson.

The principal silver-lead lode and some of the subordinate veins have been intermittently worked for high grade ores over a peroid of many years, but no comprehensive develo gment and operating policy on a scale justified by the large showings and indications, has been pursued.

These holdings occupy almost a mile of one of the most highly mineralized belts in the section. The main line of ore bodies occur along a strata of tilled, fractured and silicified limestone, streaked, seamed and impregnated with Argentiferous galena in generality payable proportions. The limestone is intruded by wide and narnarrow sills and dikes of andesite which have influenced mineralization from below, and the formation abuts against an Alaskite granite-porphyry which in itself contains copper and silver bearing veins of considerable promise.

"SUNSHINE OREBODY"

This is opened at and near suface for a continious length of 1,000 feet by shallow and deep trenches and prospect shafts and by faces and inclines cut into the side and end of a limestone bluff which is, in large part, of very good milling grade. The northern portion of these surface exposures prove a general width of from 7 feet to 15 feet of

xed carbonate and galena ore. Near the center of this continious ore shoot, a shaft is sunk 150 feet showing at 100 feet level crosscuts 40 feet wide of medium to low grade material. A Winze sunk 25 feet below the level is sunk on good pay ore for its full width, there being a noticable increase in proportion of silver to lead.

The open faces, cuts and inclines in a limestone bluff near the southern end of the 1000 feet of ore opened to date, expose andfollows a solid face of galena carbonate limestone ore 40 feet wide at right angles to dip and over 50 feet are exposed. This is all good average milling value with segregation streaks of solid galena up to 15 inches wide.

The width, even mineralization and generally uniform and payable value of this ore-exposure is impressive and alone merits the vigorous continued development and operation of this property.

About 300 feet south of this cliff exposure and about 100 feet vertically below it, in Ash Canyon, a tunnel has been driven along the foot wall of the main ore-bearing limestone mass and at 110 feet from portal ore of similar good grade has opened by an 18 feet raise and a 30 feet winze. The adit drift continues in ore for 40 feet and then follows foot-walls schist. Crosscuts and drift crosscuts off this exposed ore of low grade and in places high grade, but practically all of this work has been badly laid out and the main ore bodies exposed at surface have not yet been properly explored for at the tunnel level. The chatactor and grade of the ore partly opened to date together with that opened in the deepest workings of No. 1 shaft, coupled with the structure great size, length and structural condition of the orebearing zone, promise continuity of size and value with depth. In fact deep develo ment of similarly conditioned ore occurences in the neighboring Twin Buttes, Mineral Hill camps has pr oved these orebodies to increase in size and value with depth and there are good reasons to expect same of the Sunshine orebodies.

The ore is of uniform character consisting of partly silicified, dark limestone, with streaks of quarts and calcite and a heavy mineralization as streads, bunches and impregnations of galena withe little pryite and a very little zinc. Near surface part, but not a preponderance, of lead occurs as carbonate. Without a very thorough sampling of the whole it is impossible to state the exact average lead-silver and content of the exposed ores, but it is very safe to approximate the general tenor of the whole at $1.00 Gold - 7 oz. Silver - 8% Lead. Taking Silver at a paid price of 95 cents and lead at a paid price of 6 cents per pound less 2% deduction, this would show a gross paid for general value of $1.00 Gold $6.65 silver and $7.20 lead netting 6 cents per pound, or a total of $14.85 per ton. Much of the ore exposed carries considerably higher values especially in silver, and I consider this working approximation conservative for a preliminary basis of consideration.

The Quantity of ore in this one continious ore shoot as partly proven and assured, but not yet fully blocked out by drifts and rises, etc/, can be safely estimated to contain for 1,000 feet opened at surface and to a depth of only 75 feet, and for an estimated minimum average width of 12 feet, to contain a recoverable and "paid for" value on above metal prices of $14.85 per ton) allowing 18 cub. ft. per ton)or a total recoverable value of $1,115, 750 in this ore shallow zone.

C O S T S

Working conditions are excellent and compare favorably with any camp in the region. The ore will be cheaply mined and milled and a high percentage recovery will be obtained by medium crushing and straight concentration or Flotation - The latter preferable when the part carbonate ores have been depleted.

The ratio of concentration will be about 7 to 1 on the general grade of ore exposed.

Following further developement and putting the mine in shape for continued and extensive mining and milling, a 100 ton per day treatment plant could be safely installed.

On foregoing estimates of average recoverable values of $14.85 and estimating a total expense on mining and milling and marketing concentrate of $6.20 per ton; crude ore the estimated working profit would be $8.65 per ton crude, or a total working profit of $701,250 from this block of ground.

The above approximation applies solely to the superficial ores as above demarcated. There is every reason to expect that further and deeper developement, both in this locality and at other points in this property, will prove up to a tonnage of ore out of all proportion to that approximated above.

It is likely that when developement proceeds below water level and the partly leached surface zone exposed to date, values, particularly silver, will increase. In this connection it is noticable that the ratio ofsilver to lead had increased in the lowest shaft winze workings.

With some improvement to old road, necessited by washouts, Tucson will be brought within a good truck haulage of 34 miles.

Water supply is secured from future mine workings and by development of water bearing kaolin belt, paralleling the Sunshine vein.

In addition to the main Sunshine silver-lead vein, several other ore occurrences warrant developement, particularly a copper silver-gold bearing contract traversing the central Sunrise claims and partly opened by ~~[illegible]~~ inclined shafts, cuts and tunnels, which show bunches and streaks of oxidised and sulphide copper silver ores of good grade.

The Foregoing provisional notes are based on several days inspection of the property and a general study of the locality.

values have been arrived at from creditable previous samples and a very moderat amount of sampling by myself. A thorough examination and sampling would certainly enable a more definate statement of the property and very probably a largely amplified approximation of ore tonnage and ore values.

I confidently recommend this property as a sound development and operating undertaking having an unusually large amount of ore opened for the development accomplished to date.

(Signed) C. H. Jones

July 30, 1920
Tucson, Arizona

(This is a copy)

"From"

Nolen L. McLean
Attorney at Law
90 N. Church St.
Tucson, Arizona.

Page # 1

Recored # 29591
Book # 283
Page # 152

DMA DOCKET # 996

OPERATING AGREEMENT (Copy)

KNOW ALL MEN BY THESE PRESENTS: That on this 17 day of July, 1950, the Cactus Milling Co., a co-partnership composed of Norris J. Colvin, Robert A. Steinbacker, and Jonathan Burbridge, hereinafter called the "Miller", and Paul R. Yewell doing business as the Yewell Research Laboratory, hereinafter know as the "Concentrator", and Fred W. Fickett as Executor of the Estate of S. W. Purcell, ~~D~~ Deceased, and Fred W. Fickett, an individual, hereinafter known as the "Landlord", and Walter N. Calvert, hereinafter known as the "Tenant", ~~M~~ make and enter into an agreement as follows, to-wit:

(1) The Landlord consents to the terms of this contract and the covenants hereinafter set out.

(2) The Miller covenants and agrees to install a crushing, grinding, and screening mill on property demised by the Tenant herein, for the purpose of crushing, grinding, and screening ore from the Sunshine Mine, which said mill shall have a minimum capacity of twenty-five (25) tons per day, and to crush, grind, and screen ore supplied by the Tenant, and shall deliver the same to the Concentrator.

(3) The Concentrator herein agrees to separate, concentrate, and deliver said concentrates to the concentrate bin.

(4) The cost of sacks and sacking and transporting the concentrates from the mill to the smelter or other market and the treatment at the smelter will be borne equally by the Landlord and the Tenant on the one hand and the Miller and the Concentrator on the other hand. The separated and concentrated products,containing

OPERATING AGREEMENT (Copy)

valuable minerals produced by the said concentration, shall be sacked by the Miller, and the Landlord will receive ten (10%) percent and the Tenant will receive forty (40%) per cent of the net smelter return, and the Miller will receive twenty-five (25%) per cent of the net smelter return, and the Concentrator will receive twenty-five (25%) per cent of the net smelter return.

(5) The Tenant agrees that he will supply Twenty-Five ($25.00) Dollar ore which averages not less than Twenty-Five ($25.00) Dollars per ton in value, which averages will be computed on the basis of periods of sixty (60) days each, to the Miller, that he will supply not less than twenty-five (25) tons per day for not less than twenty-five (25) days per month, that he will put the ore in the bin of the Miller so sized that it will pass through the grizzley, provided that if said Tenant fails for a period of sixty (60) days, unless excused by Act of God or circumstances beyond his control, from delivering the minumum guantity of ore hereinbefore recited, ~~at~~ then and in that event, the Landlord agrees and the Tenant agrees that the Miller may take over the operation of said mine and succed to all the rights, duties, privileges, and liabilities of the Tenant in and to the Lease hereto fore entered into between the Landlord and Tenant.

IN WITNESS WHEREOF, the parties have hereunto set their hands this 17 day of July, 1950.

Signed Norris J. Colvin

Signed Jonathan Burbridge

Signed Robert A. Steinbacker

MILLER

DMA DOCKET # 996

OPERATING AGREEMENT (Copy)

YEWELL RESEARCH LABORATORY

Signed By Paul R. Yewell
PAUL R. YEWELL

CONCENTRATOR

SIGNED Fred W. Fickett
Fred W. Fickett, ad Executor of the Estate of S. W. PURCELL, Deceased

Signed Fred W. Fickett
Fred W. Ficket, an individual

LANDLORD

Signed Walter N. Calvert
Walter N. Calvert

TENANT

"FROM"

Law Offices Of
Fred W. Fickett
140 North Church Street
Tucson, Arizona

Page # 1
DMA DOCKET # 966

(Copy)

ASSIGNMENT

I, WALTER N. CALVERT, do hereby transfer, assign, convey and set over to ROBERT STEINBACKER, MORRIS COLVIN, PAUL YEWELL and J. S. BURBRIDGE, hereinafter referred to as "Buyers," that certain Lease and option entered into by and between Fred W. Fickett and Fred W. Fickett as Executor of the Estate of S. W. Purcell, Deceased, as parties of the first part, and Walter N. Calvert, as party of the second part therein, and covering those certain unpatented mining claims, two mill sites and water right located in the Papago Mining District in Pima County, Arizona and generally known as the Sunshine, Sunrise and Sunbeam group of mining claims, mill sites and water right, and I do also hereby convey to said Buyers all of the property described in said Lease and Option, and I do hereby expressly consent that the parties of the first part in said Lease and Option shall make their deed direct to the Buyers herein when and if the purchase price provided for therein has been paid in full.

IT IS UNDERSTOOD AND AGREED THAT THE Buyers shall pay to me the sum of $300.00, payable by transferring and paying to me five per cent (5%) of the net smelter or mill returns on all ore or concentrates hereafter shipped from the property described in said Lease and Option until the said $300.00 shall have been paid in full, and for said consideration I do also agree to sell and convey to the Buyers herein the ore bin which I have erected on said property, but the title to said ore bin shallremain in me until said $300.00 is paid in full, and if the Buyers herein fail to pay said $300.00 within six months from this date, the title to said ore bin

(copy)

ASSIGNMENT

shall revert absolutely to me, and the Buyers shall forfeit all sums paid under this Assignment as liquidated damages.

The Buyers do hereby agrdd to carry out all the terms and conditions of said Lease and Option hereinbefore referred to as required of the party of the second party therein and to relieve and hold harmless said second party thereon.

WITNESS my hand at Tucson, Arizona this 11th day of December, 1950.

Signed Walter N. Calvert
Walter N. Calvert

We, the undersigned Buyers in the foregoing assignment do hereby agree to and approve of all of the terms and conditions set forth therein.

WITNESS our hands at Tucson, Arizona, this 11th day of December, 1950.

Signed Robert Steinbacher
Robert Steinbacher

Morris J. Colvin
Morris Colvin

PAUL YEWELL

By Robert Steinbacher
His Agent

J. S. Burbridge

By Robert Steinbacher
His Agent

STATE OF ARIZONA)
County of Pima) ss.

The foregoing instrument was acknowledged before me this 11th day of December, 1950, by Robert Steinbacher and Morris Colvin, individually, and by Robert Steinbacher as agent for Paul Yewell and by Robert Steinbacher as agent for J. S. Burbridge, and by Walter N. Calvert. -- Erna N. Sornberger -- Notary Public

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-996 X

Date received 6/4/51

Participation

YEWELL RESEARCH LAB.
PAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

FILL IN THIS BLOCK

Date of application May - 7 - 1951

Estimated cost $10,470.00

Mineral or metal Lead - Silver

Percentage of Government participation 50%

Location of mine Pagago Mining District, Pima County, Arizona
R. - 10 E.
T. - 17 S. (Section 12)

Date of filing MF-100 MAY-7 ~~MF~~ - 7 - 1951

DMA Docket Number, if available 996 X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Cactus Milling Co Yewell Research Lab — By R. A. Steinbacher
(Name of company) (Signature of authorized official)

May 29-51 — Partner
(Date) (Title)

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

*Same as footnote on page 1.

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

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 966

1 Individual and Partnership
Paul R. Yewell as an individual
Cactus Milling Co. as a partnership

2 Partnership
J. S. Burbridge
R. A. Steinbacker
N. J. Colvin (P. O. Box # 966 Tucson, Ariz.)

3 None

4 (a) Mr. Paul R. Yewell 636 W. Oro Road Tucson, Arizona
Mining Engineer
Owner and operator of The Yewell Research Lab.
(b) Mr. J. S. Burbridge
Mine Operator (2 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.
Mr. R. A. Steinbacker
Mechanic (Business and store operator)
Mr. N. J. Colvin (Retired Lumber Businessman)

5 Lessee

6 Not Owner

7 Copy of Lease and licenor in good standing.

8 Machinery and equipment, Mill and Milling Supplies are all paid for, at present value of about $20,000.00 Each

9 $5,000.00

10 (a) Sunshine # 2, This claim joins The Sunshine # 1. (Real Prop.) The work is to open up the upper part of the vein above the portal of the old tunnell, and make an open cut mine.
(b) On Sunshine # 2 which contunues on from Sunshine # 1, which starts at Ash Creek. No maps of Sunshine # 2 available.

11 Sunshine and Sunbeam group of mining claims, always have been under these names.

12 45 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britten's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road.

Giving two outlets from the mine. The mine ~~######~~ road to Britten's Ranch is very good, and is only fair the last two miles on up th The Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

13 Water is available for domestic purposes from the wells in the bottom of Ash Creek.
(b) One Ford V-8 Power Unit and One Gaoline Jack Hammer Gas. consumation about 4 gal. per Hour.

14 One new ore shoot, in good condition, only needs a gate, car and about 150 feet of tract. Capacity about 25 tons.

15 The Ore will be Milled on the Sunshine # 1 Claim by Yewell Research Lab. and The Cactus Milling Co. , Under new Patients by Mr. P. R. Yewell, No water will be used and a test run on this ore on 16th of June 1950 is attatched.
The Cons. will be sacked and trucked to Tucson and shipped to a Smelter.

16 "Ore Deposits of the Sierrita Mountains" by F. L. Ransome One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine by C. H. James
Copy enclosed.

Report of Sunshine Mine "Glory Hole" By H. C. Ertel
Copy enclosed.

Available maps and drawings enclosed.

Reason for past suspension of work, " Lack of enough Water".

(b) Banner Mine) U. S. Geog. Surv. Bull. #725
University of Arizona

(c) Copy of test run on the average ore from the Sunshine # 1 Claim. Find Enclosed.

17 Not in production.

18 U. S. Geog. Surv. Bull # 725 and reports enclosed along with maps.

19 Very good climate.

20 Lead-Silver Ore Mostly Lead. Opinion of all mining men that have seen the property. There is another Blow out of Lead Silver Ore under the Lime Guarts Capping.

21 To remove the wast material by quarring method. Waste material to be dumped down the canyon or possibly used to make new roads and improve the old ones later on. About 6 months.

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.

22 The same formation at the start of the claim and very similiar to Sunshine # 1. The Silver content is strong about 3 to 5 ozs more than Sunshine # 1 and the Lead content shows 3 to 5% more lead. U. S. Geog. Surv. Bull # 725. No supportings maps available.

THE REQUIREMENTS AND COSTS

			Day	Month
# 23	(a)	3 men: Miner --- Mucker one --- Two		
		One Miner	$15.00	$375.00
		Two Muckers---	$20.00	$500.00
	(b)	One Superintendent		$300.00
		Material		
	(c)	Ore gate - car & Track 12 pieces Lumber 2 x 6 x 18 ft. for bin and shoot now on property. $150.		
	(d)	Primary Jay Crusher (Used) 500.		
	(e)	One Warsop power Tools Rock Drilling. To use in operating as an open cut mine. 600.		
	(f)	None.		
	(g)	Ford V-8 Power unit Rent		$4
		" " " " "		25.00
		Sledge Hammers, Picks, Bars, # Shovels, Powder Pliers Spoons etc.		10.00
	(h)	Sledge havver handles, Bars for prying} Shovels, etc. (Ten) $0.		
	(I)	Gasoline (50 gal. per day $12.00) 25 da. Month.		300.00
		Water, for engines, Utilities etc.		25.00
		Material- $1260.00		1535.00

$1535 per Month
at 6 Months for $9,210 - 9210.00
Total of $10,470.00

24 Six Months.

Removeable of the over burden and the ore exposed so that it will be ready to mine as by open cutting on the veins of Lead - Silver Ore.

MF - 202

Pima Arizona

7th - Day - of - May 1

YEWELL RESEARCH LAB. & CACTUS MILLING CO.

May - 7 -

1961

Fred W. Ficket (Law Offices)
140 N. Church Street
Tucson, Arizona
And

Fred W. Ficket as Executor of the
Estate of S. W. Purcell, Deceased.

MF - 200

7 May ---------- 1

YEWELL RESEARCH LAB. -- Paul R. Yewell (Individual)
&
CACTUS MILLING CO. ---- J. S. Burbridge
H. A. Steinbacker (Co-partnership)
M. J. Colvin

Arizona Pima Papago Mining
District - Sunshine Mine -- Range 11-E. Township 17S. - Section 12.
Recorded in Book BBB Records of Mines -- Page 122 & 123

30 ---------
Lead

6 Months

50

10,470.00 5,235.00 50----

YEWELL RESEARCH LAB.
CACTUS MILLING CO.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Cactus Milling Co
Yewell Research Lab
(Name of company)

By R. J. Steinbacher
J. L. Burbridge
(Signature of authorized official)

May 29-51
(Date)

Partner
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1

Minerals Divisi

TELETYPE MESSAGE

TO: L. B. Moon, attention J. H. East, Jr.

DATE: June 28, 1951

SUBJECT: C. A. Anderson telegram received "DMA 996X examined June 26 by Faick of Survey. Program submitted not exploration. Application denied".

Paul T. Allsman

CC: AH Koschmann

DMA 996

857

JUL 2 1951

RECEIVED
JUL 2 1951
BUREAU OF MINES
MINERALS DIVISION

FILE COPY
SURNAME:

McKnight
Herrs Mote

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

JUN 18 1951

Docket DMA-996X
Yewell Research Lab.
Mine in Papago District
Near Tucson, Arizona
Lead
Exploration loan

Mr. J. H. East, Jr.
Executive Officer, DMA Field Team
Region IV
224 New Customhouse
Denver 2, Colorado

Dear Mr. East:

This docket is referred to the field for information and advice. The proposal is to remove an overburden preparatory to open-cut mining which is hardly exploration. However, it could be exploration if it were designed to prove up more ore in order to justify a mining operation. Whether this would be the most efficient type of exploration is not evident from the docket submitted.

The geologic description is not too clear and the property also needs a geologic examination to determine whether an exploration project would have reasonable chances of success.

Very truly yours,

Tom Lyon

Chairman
Coordinating Committee

Lowell B. Moon

For the Bureau of Mines

Olaf N. Rove

For the Geological Survey

ETMcKNIGHT:emp
G 6/14/51
Copies to: Chief, Lead-Zinc Br.
E. T. McKnight 4204 GSA
R. H. Mote
L. F. Strobel
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

FILE COPY
SURNAME:

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

June 18, 1951

Mr. J. S. Burbridge
Partner
Cactus Milling Co.
Box 966
Tucson, Arizona

Subject: DMA-996X
Re: Exploration Loan
Sunshine Mine

My dear Mr. Burbridge:

Receipt is acknowledged of your application and attachments of May 7, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-996X and was referred to Mr. Otto Herres, Chief, Lead-Zinc Branch on June 7, 1951.

In any future correspondence relating to your application, kindly refer to DMA-996X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

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

FILE COPY
SURNAME:

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

McKnight
Mote
Hendes

6-14-51

Re: Docket DMA-996X

Mr. Paul R. Yewell
Yewell Research Laboratory
Box 966
Tucson, Arizona

Dear Mr. Yewell:

Your application for a loan (DMA-996X) to explore the Sunshine Orebody No. 1, in the Papago District, Arizona, has been referred to Mr. J. H. East, Jr., Executive Officer of the Field Team, 224 New Customhouse, Denver 2, Colorado, for further information and advice.

Very truly yours,

Tom Lyon, Director
Supply Division

ETMcKNIGHT:emp
G 6/14/51
Copies to: Chief, Lead-Zinc Br.
J. H. East, Jr. Region IV (2)
E. T. McKnight 4204 GSA
R. H. Mote
L. F. Strobel
Directors r. file 4214 GSA
Br. r. file 4214 GSA
Files

FILE COPY
SURNAME:

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

Memo
McKnight
Hares

April 18, 1951

Mr. J. S. Burbridge
Cactus Milling Company
Box 966
Tucson, Arizona

Dear Mr. Burbridge:

In reply to your letter of April 2 requesting application forms:

One of the forms of Government aid is the granting of procurement contracts for such materials as are in short supply. The Defense Minerals Administration, however, has not yet formulated a program for lead procurement.

A program has recently been approved for the encouragement of exploration of strategic materials. This program calls for participation on the part of the applicant. For lead deposits it will be necessary to match Government funds on an equal basis. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be canceled if unsuccessful. Information on this exploration program and application forms are enclosed.

Your letter of April 2 does not contain sufficient information to determine whether or not your project can be considered under this exploration program. If it is an exploration project, please fill out and return the enclosed application forms. Your proposal, which should be specific as to the work to be undertaken, will be reviewed and perhaps a field examination will be required before funds will be granted.

EJLyons:emp G 4/18/51

Very truly yours,

Otto Herres

OTTO HERRES, Chief
Lead-Zinc Branch

Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
L. B. Moon
R. H. Mote
L. F. Strobel
C. O. Mittendorf
Files

Enclosures

Page - 996

B

FILE COPY
SURNAME:

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

April 17, 1951

Mr. J. S. Burbridge
Cactus Milling Company
Box 966
Tucson, Arizona

Subject: DMA-996

Re: Loan

My dear Mr. Burbridge:

Receipt is acknowledged of your application and attachments of April 2 for a Government loan under the Defense Production Act of 1950.

The application was assigned Docket Number 996 and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch, on April 16.

In any future correspondence relating to your application, kindly refer to DMA-996.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFStrobel:aec
copies to Strobel-2
files
Mr. Herres
Mr. Lyon

Mr. Pierce - Dma-996

ans. OH. 4/18/51

Cactus Milling Co.
Box 966
Tucson, Arizona
April - 2 - 1951

Dr. James Boyd, Administrator
Defense Minerals Administration
Washington 25, D.C.

Dear Mr. Boyd:

We are writting for the new tentative Application forms; Aid for Miners.

Brief information is as follows:

Name and address of owner;

Fred W. Fickett (Law Offices)
140 N. Church Street
Tucson, Arizona
And
Fred W. Fickett as Executor of the Estate of S. W. Purcell, Deceased.

Name of property;

Sunrise and Sunbeam group of mining claims, better known as Sunshine Mine.

Location of property and Transportation facilities;

Papago Mining Districk, Pima County, Arizona. R. 11 E. - T 17S Tucson to Ajo road, turn on to Sasabe road at three points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads/ "Brittin Ranch" 8 Miles, 2 more miles on up this a road is the Sunshine Mine. This same road leads on out to the Sasabe road, giving two outlets to the mine.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 12 1951
LANDON F. STROBEL
Executive Secretary

APR 17 1951

9

Amount of work done on the property;

The mine has been worked off and on since the Eighties, two large glory holes of about 60 feet in width and 200 feet in lenght plus about 30 feet in dept. Tunnells will average over 400 feet of work and the shafts will averages 700 feet or better.

Note

Complete report up to about 1920 may be found in;
ORE DEPOSITS OF THE SIERRITA MOUNTAINS, PIMA COUNTY, ARIZ.
U.S. GEOG. SURV. BULL. # 725
By F.L. Ransome.

Nature and value of the ore;

Lead, Silver, with a very little Gold, and as fully set forth in U.S. GEOG. SURV. BULL. # 725 And University of Arizona Bull. # 140, Series # 19 Page 97

Amount of loan requested;

To be filled in on proper tentative application forms.

Purpose for which money will be used.

Purchase of mining machinery,
Labor,
Transportation of Ore and Con.

Note

A 25 ton Mill is being completed to successfully handle the type of ore from the Sunshine Mine. Work was started on this mill last Sept. 1950 and will be in Operation next month.

Cactus Milling Co. (Partnership)

J.S. Burbridge

R.A.Steinbacker

Norris J. Colvin

And

Yewell Research Lab.
636 W. Oro Road
Tucson, Arizona
Paul R. Yewell
636 W. Oro Road
Tucson, Arizona

Operating with a lease and option to purchase the Sunshine group of mining claims.

Copy to:
Dept. of Mineral Resources
State fair-grounds
Phoenix, Arizona
Att: Mr. Manning.

A.S.M.O.A. Tucson, Ariz.
3 - 15 - 1951

By:
J. S. Burbridge

J. S. Burbridge

BUREAU OF MINES
WASHINGTON, D. C.

APR 11 1 15 PM '51

April 13, 1951

Mr. J. S. Burbridge
~~Castle Killing Company~~
Box 916
Globe, Arizona

Dear Mr. Burbridge:

In reply to your letter of April 2 requesting application forms:

One of the forms of government aid is the granting of procurement contracts for such materials to aid in supply. The Defense Minerals Administration, however, has not yet formulated a program for lead procurement.

A program has recently been approved for the encouragement of exploration of strategic materials. This program calls for participation on the part of the applicant. For lead deposits it will be necessary to match Government funds on an equal basis. Funds advanced by the Government will be considered a loan, to be repaid if the exploration is profitable, but to be cancelled if unsuccessful. Information on this exploration program and application forms are enclosed.

Your letter of April 2 does not contain sufficient information to determine whether or not your project can be considered under this exploration program. If it is an exploration project, please fill out and return the enclosed application form. Your proposal, which should be specific as to the work to be undertaken, will be reviewed and, perhaps a field examination will be required before funds will be granted.

Very truly yours,

Otto Herres
Director, Chief
Lead-Zinc Branch

EJLyons:emp 4/18/51

Copies to: J. H. East, Jr. Region IV (2)
Chief, Lead-Zinc Br.
L. E. Moon
R. H. Hots
L. F. Strobel
C. O. Mittendorf
Files

Enclosures

Dupe 996

J. S. Burbridge
Cactus Milling Co
~~Fred W. Tickell~~

Tucson Ariz

Sunshine Mine
Pima Co, Ariz
[send application forms immediately]

April 17, 1951

Mr. J. S. Burbridge
Cactus Milling Company
Box 966
Tucson, Arizona

Subject: DMA-996

Re: Loan

My dear Mr. Burbridge:

Receipt is acknowledged of your application and attachments of April 2 for a Government loan under the Defense Production Act of 1950.

The application was assigned Docket Number 996 and referred to Mr. Otto Herres, Chief, Lead-Zinc Branch, on April 16.

In any future correspondence relating to your application, kindly refer to DMA-996.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFStrobel:aec
copies to Strobel-2
files
Mr. Herres
Mr. Lyon

L. [illegible] F. [illegible]

Cactus Milling Co.
Box 966
Tucson, Arizona
April - 2 - 1951

Mr. Blem
4/16/51

dma-996

James Boyd, Administrator
Bureau Minerals Administration
Washington 25, D.C.

Dear Mr. Boyd:

We are writting for the new tentative application forms, Aid for Miners.

Brief information is as follows:

Name and address of owner;

Fred W. Pickett (Law Offices)
140 N. Church Street
Tucson, Arizona
And
Fred W. Pickett as Executor of the Estate of S. W. Purcell, Deceased.

Name of property;

Sunrise and Sunbeam group of mining claims, better known as Sunshine Mine.

Location of property and Transportation facilities;

Papago Mining District, Pima County, Arizona. R. 11 E. [illegible] Tucson to Ajo road, turn on to Sasabe road at three points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads/ "Brittin Ranch" 3 Miles, 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road, giving two outlets to the mine.

Amount of work done on the property;

The mine has been worked off and on since the Eighties, two large glory holes of about 60 feet in width and 200 feet in lenght plus about 30 feet in dept. Tunnels will average over 400 feet of work and the shafts will averages 700 feet or better.

Note

Complete report up to about 1920 may be found in;
ORE DEPOSITS OF THE SIERRITA MOUNTAINS, PIMA COUNTY, ARIZ.
U.S. GEOG. SURV. BULL. # 726
By F.L. Ransome.

Nature and value of the ore;

Lead, Silver, with a very little Gold, and as fully set forth in U.S. GEOG. SURV. BULL. # 726 And University of Arizona Bull. # 140, Series # 12 Page 37

Amount of loan requested;

To be filled in on proper tentative application forms.

Purpose for which loan will be used.

[illegible]
[illegible]
Transport [illegible]

Note

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
Operat[illegible]

Cactus Milling Co. (Partnership)

J.S. Burbridge

R.A.Steinbacker

Morris J. Colvin

And

Yewell Research Lab.
636 W. Oro Road
Tucson, Arizona
Paul R. Yewell
636 W. Oro Road
Tucson, Arizona

Operating with a lease and option to purchase the Sunshine group of mining claims.

Copy to:
Dept. of Mineral Resources
State fair-grounds
Phoenix, Arizona
Att: Mr. Manning.

A.S.M.O.A. Tucson, Ariz.
3 - 15 - 1951

By:
J. S. Burbridge

J S Burbridge

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 1 2 1951
LANDON F. STROBEL
Executive Secretary

Form MF-100
(March 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Form approved.
Budget Bureau No. 42-R1026.

GENERAL TECHNICAL DATA
FOR USE UNDER THE
DEFENSE PRODUCTION ACT OF 1950

NOT TO BE FILLED IN BY APPLICANT

Docket No. Dma-996X

Date received 6/4/51

YEWELL RESEARCH LAB.
RAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

INSTRUCTIONS

This form is to be filed with Defense Minerals Administration, Department of the Interior, Washington 25, D. C. It should be accompanied by appropriate application form when a specific type of Government assistance is requested, in the form of (1) loan, (2) purchase contract, (3) Government guarantee of a private loan, (4) Necessity Certificate pursuant to the provisions of Sec. 124–A (Amortization Deduction) of Internal Revenue Code, 1950, (5) priorities or allocation of mining equipment, and maintenance, repair and operating supplies, and (6) other forms of Government assistance that might arise under the Act. Submit four (4) signed copies of the form and accompanying papers. Name and address should be stamped or typed on each sheet of this form and all accompanying papers. *When a question is inapplicable it should be so stated on the form.* Additional sheets may be attached in answering any questions or in supplying additional information. (IF YOU CANNOT ANSWER A QUESTION, SO STATE.) If a question is answered elsewhere indicate where answered. It is not necessary to answer it again.

GENERAL TECHNICAL DATA

Supply the following information on separate sheets, arranged, numbered, and lettered as indicated:

1. Materials produced:
   (*a*) What are the chief mine, mill, or smelter products?
   (*b*) What are the byproducts, if any?
2. Name(s) and type(s) of mine(s), mill(s), smelter(s), refinery(ies), pit(s), quarry (ies), drilling operation(s). Include old names of property, if any. Show extent of workings, including the following:
   (*a*) Linear feet of shafts.
   (*b*) Linear feet of drifts and crosscuts.
   (*c*) Linear feet of tunnels or adits.
   (*d*) Linear feet of other mine openings (explain briefly).

   Indicate whether mine is flooded or not. Describe any pumping problems. Give size or productive capacity.
3. For each operation listed above supply the following:
   (*a*) Distance and direction from nearest town and shipping point.
   (*b*) Mining district.
   (*c*) Township, Section, Range.
   (*d*) County, State.
4. (*a*) State whether or not property is now in operation, and if in operation, by whom operated.
   (*b*) Are you operating this property as:
   - ☐ Owner.
   - ☐ Lessee.
   - ☐ Contractor.
5. Number of years in production _____

   If not in production or operation, estimated date when production will begin _____
6. Experience of operators:

   Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who manage the project.
7. History:
   (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for suspension of operation.
   (*b*) State briefly the known history and production of adjoining and neighboring properties.
   (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

8. Names and addresses of Officers, Directors, or Partners, and in addition thereto, the five largest stockholders if applicant is 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 Interest in Applicant (d)	Number of Shares Held in Applicant Corporation: Common (e)	Number of Shares Held in Applicant Corporation: 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)
Paul R. Yewell	Individual						
686 W. Oro Road-Tucson							
J. S. Burbridge							
E. A. Steinbacker	Partership						
N. J. Colvin							
Box 966-Tucson							
	Total		x x x x x			x x x x x	x x x x x

If more lines are needed continue on separate sheet.

9. 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	$	$	$		
Preferred stock	$	$	$		

*Indicate period covered.

10. Production:

Item	Kind of Product (a)	1948 Total (b)	1949 Total (c)	1950 Total (d)	Present Average Monthly (e)
1. Quantity of product mined or quarried (Short, long, metric tons; barrels; pounds; etc.)					
2. Quantity of product processed (specify unit of measure and type of process)					
3. Quantity and grade of product sold or shipped (specify units of measure)					

11. Do you contemplate a change in the present average monthly rate of production? If so, state estimated maximum monthly production and basis of change.

12. Ore or Mineral Reserves:

(a) Describe the ore or mineral deposit briefly. Accompany the application by any available report on the geology and ore reserves.

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 996

GENERAL TECHNICAL DATA.

1. (a) Lead, Silver --- Lead-Silver Con.
(b) Ground and screen blue limestone.

2. Name - Sunshine Orebody # One
Type - Open cut
Mill - Dry grind
Smelter -None
Refinery - None
Pits - One small (Not in use)
Quarry - One
Drilling Operations (Open cut and quarring)
Old names - Always Old Sunshine Workings. Since 80's
Extent of work - Old map of 1920 included.

(a) About 400 feet.

(b) About 150 feet.

(c) About 400 feet.

(d) Several openings along surface for 1,000 feet and to a depth of 75 feet. As explained in U. S. Geog. Sur. Bull # 725 and Report by Mr. C. H. James - Find enclosed.

The mine is not flooded and no pumping problems are expected.

Production capacity 25 to 100 tons per day. Milling Ore.

3. (a) 43 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britten's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road. Giving two outlets from the mine. The road to Britten's Ranch is very good, and is only fair the last two miles on up the Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

(b) Papago Mining District of the Sierrita Mountains, Pima County, Arizona.
(c) Range 11 - E & Township 17 S. -- Section # 12.
(d) Pima County, Arizona

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # ~~[illegible]~~ 996

4. (a) Property is not in operation.
(b) Lessee.

5. Can not answer (Has been worked off and on since 80's. Soon (about July 1st.)

6. Mr. Paul R. Yewell 636 W. Oro Road - Tucson, Ariz.
Mining Engineer
Owner and operator of The Yewell Reacarch Lab.

Mr. J. S. Burbridge
Mine Operator (3 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.

Mr. R. A. Steinbacker
Mechanic (Business and store operator)

Mr. N. J. Colvin (Retired Lumber Businessman)

7. (a) "Ore Deposits of the Sierrita Mountains" By F. L. Ransome
One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine By C. H. James
Copy enclosed.

Report of Sunshine Mine " Glory Hole" By H. C. Ertel
Copy enclosed.
Available maps and drawings enclosed.
Reason for past suspension of work, " Lack of enough Water".
(b) Banner Mine -- U. S. Geog. Surv. Bull. # 725
(c) Available reports and maps enclosed.

8. Not a Corporation. Names are on Form MF-100

9. None.

10. Lead-Silver (Do not know production of 1948,49,50,
Do not know
Do not know.

11. Yes) 35 tons per day for 25 working days per month.
Milling ore

12. U. S. Geog. Surv. Bull. 725 Sunshine Mine.
Preliminary Notes -- By C. H. James
(b) Map enclosed.

YEWELL RESEARCH LAB.

&

CACTUS MILLING CO.

BOX 966

 TUCSON, ARIZONA DMA DOCKET # 996

12. (b) Cont. Taken from old reports enclosed.

13. 43 Miles to Tucson, Arizona -- Gravel road on Sasabe road to Three Points, then paved highway to Tucson.
Mountain roads from Mine to Sasabe road in fair condition.

14. Water for domestic use for all seasons of year. In Ash Canyon.
Plenty of water for engines and machinery.
None needed for milling operations.

15. One 25 KW Gas-Elec. Gen.
One 7.5 KW Gas-Elec. Gen.
One 8 Crysler Engine Power unit. (Rod Mill and Crushers)
One V-8 Ford Power Unit. (Crusher)

16. Needed - 3 miners, muckers, - 2 mill men, 1 labor
(recent representative payroll period, One Labor.)

17. Two cabins in good condition, one equip. for living at present time, the other needs stove, beds, and household equipment.
Well in Ash Canyon for domestic water.

One Complete Mill soon in full operation.
One 60 ton Bin
One 8 x 10 Jaw Crusher
One Rod Mill
One set of rolls
5 Screens for classify
5 Small Bins
Five Tables for seperation of ore from waste and all necessary elec. equipment.
One 7.5 KW Gas-Elec. Gen.
One 25 KW Gas-Elec. Gen.

18. None that we know of.

YEWELL RESEARCH LAB.

CACTUS MILLING CO.

LEAD ORE
Galena - Cerussite
Sunshine Mine # 1, Ariz. DMA Docket # 996

SCREEN ANALYSIS & ACCOUNTABILITY

Size Mesh	Pounds Gross Wt.	Percent Total Wt.	Sample Wt. Lbs	Net Wt. Pounds	Percent Net Wt.	
-20 -40	672.0	32.521	5.5	666.5	32.923	#Assayed
-40 -60	628.0	30.672	4.0	624.0	30.822	1.12% of
-60 -80	93.0	4.542	4.0	89.0	4.396	total Weight
-80 -100	92.0	4.493	3.5	88.5	4.372	##Pounds for
-100	562.5	27.473	6.0	556.5	27.486	which accoun
TOTALS	2047.5	100.000	23.0 #	2024.5 ##	99.999	table.

PRODUCTS

Size Mesh	HEADS Pounds	Dust	Net Wt	% Total	TAILS Pounds	% Total	MIDS Lbs.	% Total	CONS. Lbs.	% Total
-20 - 40	666.5	21.5	645.0	34.037	497.0	30.342	64.5	38.856	83.5	37.868
-40 +60	624.0	27.0	597.0	31.504	514.0	31.380	39.0	23.494	44.0	19.955
-60 - 80	89.0	4.0	85.0	4.485	41.5	2.532	17.5	10.542	26.0	11.791
-80 -100	88.5	1.5	87.0	4.591	49.5	3.022	15.0	9.036	22.5	10.204
-100	556.5	75.5	481.0	25.383	406.5	24.817	30.0	18.072	44.5	20.182
TOTALS	2024.5	29.5	1895.0	100.000	1508.5#	------	166.0	100.000	220.5	100.000
Dust	------	------	------	------	129.5	7.906	------	------	------	------
Net	2024.5	----	1895.0	100.000	1638.0	100.000	166.0	100.000	220.5	100.000
% Tot. Wt.	100.00				80.91		8.20		10.89	

#1508.5 pounds of tails sampled and assayed. Dust considered as tails.

DISTRIBUTION OF VALUES -- RECOVERY

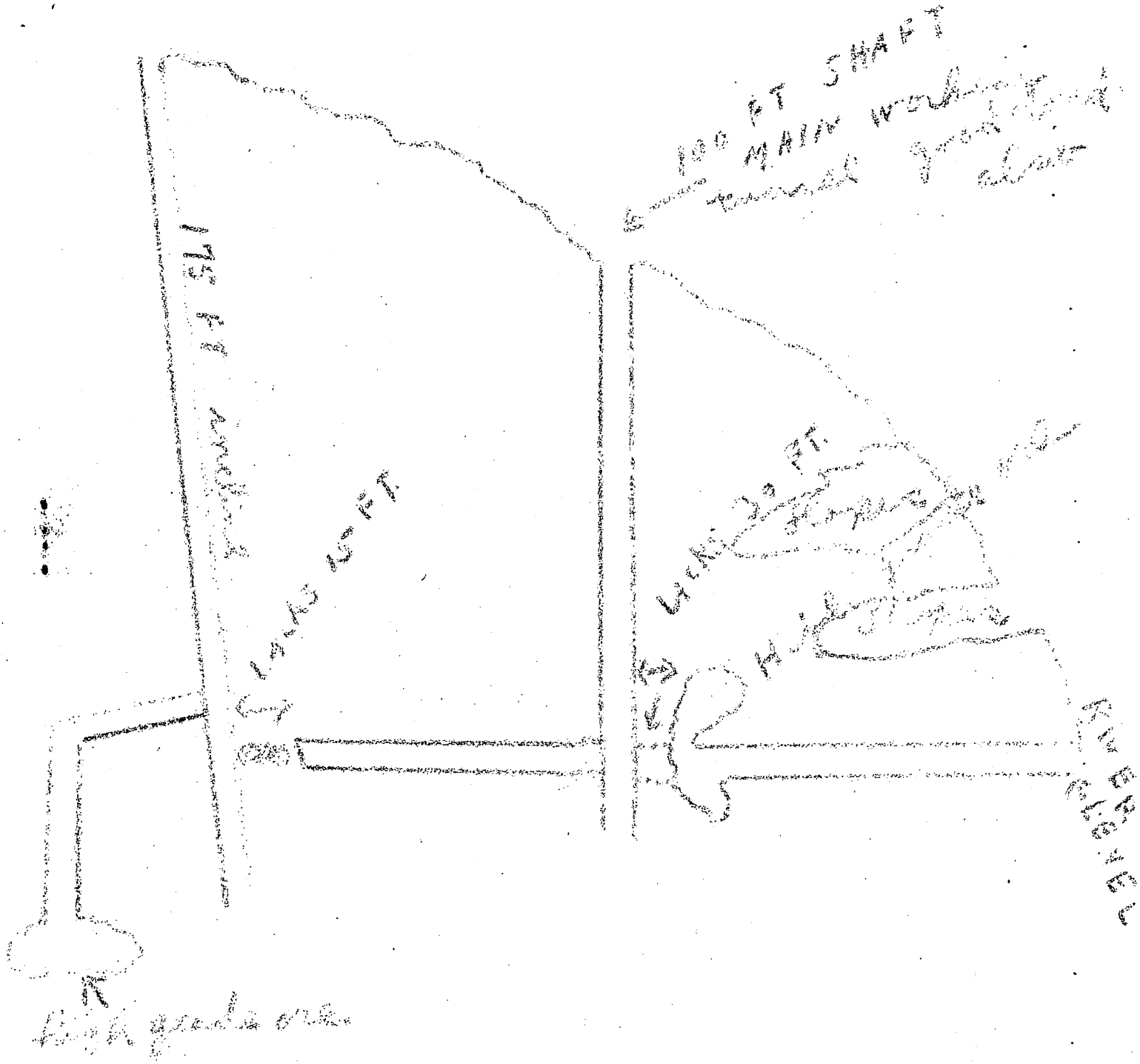
PRODUCTS Final Products	Weight Pounds	LEAD Assay %	Factor	% Total Value	SILVER Oz. Assay	Factor	% Total Value	GOLD Assay Oz.	Factor	% Total Value
TAILS	1508.5	0.6	905.1	5.744	0.4	603.4	5.938	Tr.	XXX	XXX
Mids	166.0	3.4	564.4	3.582	1.7	282.2	4.180	0.005	0.850	2.236
Cons	220.5	64.8	14288.4	90.674	26.6	5865.5	86.882	0.160	36.280	97.765
Totals	1895.0	----	15757.9	1000000	---	6750.9	100.000	-----	37.110	100.000
HEADS	#2024.5	7.78			3.04			0.019		#Computed
TAILS	#1639.0	0.557			0.32			xxxxx		#Computed

NOTE 90.67 % of the lead, 86.88 % of the silver, and 97.76 % of the gold were put into 10.89 % of the weight.

YEWELL RESEARCH LABORATORY
16th June 1950

By Joe E. Bacon
c/o Merritt Jones Hotel,
Ocean Park,
Calif.

Who Worked in Sunshine Mine 1943



REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. C. Ertel Dec. 16, 1947

"COPY"

After 60 days of work sampling and looking over this one Claim My report are facts. I have seen for the future of the Properity as a mine.

The ore showing is enough to warrant a 15 ton mill Per 24 hr. day running. With Present water supply it may be possible to mill 20 ton by saveing 25% of the water.

The cost of developing more water is to large at this time to Pay.

By working the ore as an open pit mine a small cost for man power and over head is possible.

The Present ore values are on top level and little waste needs to be moved.

The water supply now on hand is about 9 gal. per min. This amount (at three parts water one of solids) will grind and save the avg. of 87% of the values from about 17 1/4 ton of ore Per 24 hrs. milling.

It is possible to set such a mill in place for the Cost and sale of the Present Equipment on hand.

This machinery here now will not save the values in this ore and the water supply is not enough to run more than 3 hrs. per day.

The cost of power and over head is far above the values saved

The best plan is to put in a small 15 or 20 ton Ball mill

REPORT OF SUNSHINE MINE

"GLORY - HOLE"

By H. C. Ertel "COPY" Dec. 16, 1947

out all cost o f labor to the last cent needed and use good ore to mill dump all ore or Rock below $10.00 values and ship all High grade Picked lead.

In doing this a lot of development can be done and the values shall pay the expenses.

This report is backed by a sample ton of ore ship from here grossing $117.00 per ton. Assay - Lead 44.1 %
Silver 18/1 Oz.

By: H. C. Ertel

Copy

PRELIMINARY NOTES

ON THE

SUNSHINE - SUNRISE MINES

PAPAGO MINING DISTRICT, PIMA COUNTY, ARIZONA

JULY 30, 1920

The holdings of this consolidation comprises sixteen contiguous lode mining claims and two millsites of an approximate area of 300 acres, situated on northwesterly foothill spurs of the Sierrota Mountains and about 34 miles southwesterly by highway and a fair desert road from Tucson.

The principal silver-lead lode and some of the subordinate veins have been intermittently worked for high grade ores over a peroid of many years, but no comprehensive develo gment and operating policy on a scale justified by the large showings and indications, has been pursued.

These holdings occupy almost a mile of one of the most highly mineralized belts in the section. The main line of ore bodies occur along a strata of tilled, fractured and silicified limestone, streaked, seamed and impregnated with Argentiferous galena in generally payable proportions. The limestone is intruded by wide and narnarrow sills and dikes of andesite which have influenced mineralization from below, and the formation abuts against an Alaskite granite-perphyry which in itself contains copper and silver bearing veins of considerable promise.

"SUNSHINE OREBODY"

This is opened at and near suface for a continious length of 1,000 feet by shallow and deep trenches and prospect shafts and by faces and inclines cut into the side and end of a limestone bluff which is, in large part, of very good milling grade. The northern portion of these surface exposures prove a general width of from 7 feet to 16 feet of

mixed carbonate and galena ore. Near the center of this continious ore shoot, a shaft is sunk 150 feet showing at 100 feet level crosscuts 40 feet wide of medium to low grade material. A Winze sunk 28 feet below the level is sunk on good pay ore for its full width, there being a noticeable increase in proportion of silver to lead.

The open faces, cuts and inclines in a limestone bluff near the southern end of the 1000 feet of ore opened to date, expose andfollows a solid face of galena carbonate limestone ore 40 feet wide at right angles to dip and over 50 feet are exposed. This is all good average milling value with segreation strocks of solid galena up to 18 inches wide.

The width, even mineralization and generally uniform and payable value of this ore-exposure is impressive and alone merits the vigorous continued development and operation of this property.

About 200 feet south of this cliff exposure and about 100 feet vertically below it, in Ash Canyon, a tunnel has been driven along the foot wall of the main ore-bearing limestone mass and at 110 feet from portal ore of similar good grade has opened by an 18 foot raise and a 30 foot winze. The adit drift continues in ore for 40 feet and then follows foot-walls schist. Crosscuts and drift crosscuts off this exposed ore of low grade and in places high grade, but practically all of this work has been badly laid out and the main ore bodies exposed at surface have not yet been properly explored for at the tunnel level. The chatactor and grade of the ore partly opened to date together with that opened in the deepest workings of No. 1 shaft, coupled with the structure grant size, length and structural condition of the orebearing zone, promise continutiy of size and value with depth. In fact deep develo pment of similarly conditioned ore occurences in the neighboring Twin Buttes, Mineral Hill camps has pr oved these orebodies to increase in size and value with depth and there are good reasons to expect same of the Sunshine orebodies.

The ore is of uniform character consisting of partly silicified, dark limestone, with streaks of quartz and calcite and a heavy mineralization as streaks, bunches and impregnations of galena witha little pryite and a very little zinc. Near surface part, but not a preponderance, of lead occurs as carbonate. Without a very thorough sampling of the whole it is impossible to state the exact average lead-silver and content of the exposed ores, but it is very safe to approximate the general tenor of the whole at $1.00 Gold - 7 oz. Silver - 8% Lead. Taking Silver at a paid price of 95 cents and lead at a paid price of 6 cents per pound less 2%deduction, this would show a gross paid for general value of $1.00 Gold $6.65 silver and $7.20 lead netting 6 cents per pound, or a total of $14.85 per ton. Much of the ore exposed carries considerably higher values especially in silver, and I consider this working approximation conservative for a preliminary basis of consideration.

The Quantity of ore in this one continious ore shoot as partly proven and assured, but not yet fully blocked out by drifts and rises, etc/, can be safely estimated to contain for 1,000 feet opened at surface and to a depth of only 75 feet, and for an estimated minimum average width of 12 feet, to contain a recoverable and "paid for" value on above metal prices of $14.85 per ton) allowing 13 cub. ft. per ton)or a total recoverable value of $1,113, 750 in this ore shallow zone.

C O S T S

Working conditions are excellent and compare favorably with any camp in the region. The ore will be cheaply mined and milled and a high percentage recovery will be obtained by medium crushing and straight concentration or Flotation - The latter preferable when the part carbonate ores have been depleted.

The ratio of concentration will be about 7 to 1 on the general grade of ore exposed.

Following further developement and putting the mine in shape for continued and extensive mining and milling, a 100 ton per day treatment plant could be safely installed.

On foregoing estimates of average recoverable values of $14.85 and estimating a total expense on mining and milling and marketing concentrate of $6.50 per ton; crude ore the estimated working profit would be $8/35 per ton crude, or a total working profit of $701,250 from this block of ground.

The above approximation applies solely to the superficial ores as above demarcated. There is every reason to expect that further and deeper developement, both in this locality and at other points in this property, will prove up to a ton age of ore out of all proportion to that approximated above.

It is likely that when developement proceeds below water level and the partly leached surface zone exposed to date, values, particularly silver, will increase. In this connection it is noticable that the ratio ofsilver to lead had increased in the lowest shaft winze workings.

With some improvement to old road, necessited by washouts, Tucson will be brought within a good truck haulage of 24 miles.

Water supply is assured from future mine workings and by development of water bearing kaolin belt, paralleling the Sunshine vein.

In adition to the main Sunshine silver-lead vein, several other ore occurences warrant developement, particularly a copper silver-gold bearing contract traversing the central Sunrise claims and partly opened by ~~fff~~ inclined shafts, cuts and tunnels, which show bunches and streaks of oxidised and sulphide copper silver ores of good grade.

The Foregoing provisional notes are based on several days inspection of the property and a general study of the locality.

Values have been arrived at from creditable previous samples and a very moderat amount of sampling by myself. A thorough examination and sampling would certainly enable a more definate statement of the property and very probably a largely amplified appreciation of ore tonnage and ore values.

I confidently recommend this property as a sound development and operating undertaking having an unusually large amount of ore opened for the development accomplished to date.

(Signed) C. H. James

July 30, 1920
Tucson, Arizona

(This is a copy)

"From"

Nolen L. McLean
Attorney at Law
90 N. Church St.
Tucson, Arizona.

Recored # 29591
Book # 283
Page # 152

DMA DOCKET # 996

OPERATING AGREEMENT (Copy)

KNOW ALL MEN BY THESE PRESENTS: That on this 17 day of July, 1950, the Cactus Milling Co., a co-partnership composed of Norris J. Colvin, Robert A. Steinbacker, and Jonathan Burbridge, hereinafter called the "Miller", and Paul R. Yewell doing business as the Yewell Research Laboratory, hereinafter know as the "Concentrator", and Fred W. Fickett as Executor of the Estate of S. W. Purcell, ~~D~~ Deceased, and Fred W. Fickett, an individual, hereinafter known as the "Landlord", and Walter N. Calvert, hereinafter known as the "Tenant", ~~M~~ make and enter into an agreement as follows, to-wit:

(1) The Landlord consents to the terms of this contract and the covenants hereinafter set out.

(2) The Miller covenants and agrees to install a crushing, grinding, and screening mill on property demised by the Tenant herein, for the purpose of crushing, grinding, and screening ore from the Sunshine Mine, which said mill shall have a minimum capacity of twenty-five (25) tons per day, and to crush, grind, and screen ore supplied by the Tenant, and shall deliver the same to the Concentrator.

(3) The Concentrator herein agrees to separate, concentrate, and deliver said concentrates to the concentrate bin.

(4) The cost of sacks and sacking and transporting the concentrates from the mill to the smelter or other market and the treatment at the smelter will be borne equally by the Landlord and the Tenant on the one hand and the Miller and the Concentrator on the other hand. The separated and concentrated products,containing

OPERATING AGREEMENT (Copy)

valuable minerals produced by the said concentration, shall be sacked by the Miller, and the Landlord will receive ten (10%) percent and the Tenant will receive forty (40%) per cent of the net smelter return, and the Miller will receive twenty-five (25%) per cent of the net smelter return, and the Concentrator will receive twenty-five (25%) per cent of the net smelter return.

(5) The Tenant agrees that he will supply Twenty-Five ($25.00) Dollar ore which averages not less than Twenty-Five ($25.00) Dollars per ton in value, which averages will be computed on the basis of periods of sixty (60) days each, to the Miller, that he will supply not less than twenty-five (25) tons per day for not less than twenty-five (25) days per month, that he will put the ore in the bin of the Miller so sized that it will pass through the grizzley, provided that if said Tenant fails for a period of sixty (60) days, unless excused by Act of God or circumstances beyond his control, from delivering the minumum guantity of ore hereinbefore recited, ~~at~~ then and in that event, the Landlord agrees and the Tenant agrees that the Miller may take over the operation of said mine and succed to all the rights, duties, privileges, and liabilities of the Tenant in and to the Lease hereto fore entered into between the Landlord and Tenant.

IN WITNESS WHEREOF, the parties have hereunto set their hands this 17 day of July, 1950.

Signed Norris J. Colvin

Signed Jonathan Burbridge

Signed Robert A. Steinbacker

MILLER

DMA DOCKET # 996

OPERATING AGREEMENT (Copy)

YEWELL RESEARCH LABORATORY

Signed By Paul R. Yewell
PAUL R. YEWELL

CONCENTRATOR

SIGNED Fred W. Fickett
Fred W. Fickett, ad Executor
of the Estate of S. W. PURCELL,
Deceased

Signed Fred W. Fickett
Fred W. Fickett, an individual

LANDLORD

Signed Walter N. Calvert
Walter N. Calvert

TENANT

"FROM"

Law Offices Of
Fred W. Fickett
140 North Church Street
Tucson, Arizona

Page # 1
DMA DOCKET # 966

(Copy)

ASSIGNMENT

I, WALTER N. CALVERT, do hereby transfer, assign, convey and set over to ROBERT STEINBACKER, MORRIS COLVIN, PAUL YEWELL and J. S. BURBRIDGE, hereinafter referred to as "Buyers," that certain Lease and option entered into by and between Fred W. Fickett and Fred W. Fickett as Executor of the Estate of S. W. Purcell, Deceased, as parties of the first part, and Walter N. Calvert, as party of the second part therein, and covering those certain unpatented mining claims, two mill sites and water right located in the Papago Mining District in Pima County, Arizona and generally known as the Sunshine, Sunrise and Sunbeam group of mining claims, mill sites and water right, and I do also hereby convey to said Buyers all of the property described in said Lease and Option, and I do hereby expressly consent that the parties of the first part in said Lease and Option shall make their deed direct to the Buyers herein when and if the purchase price provided for therein has been paid in full.

IT IS UNDERSTOOD AND AGREED THAT THE Buyers shall pay to me the sum of $300.00, payable by transferring and paying to me five per cent (5%) of the net smelter or mill returns on all ore or concentrates hereafter shipped from the property described in said Lease and Option until the said $300.00 shall have been paid in full, and for said consideration I do also agree to sell and convey to the Buyers herein the ore bin which I have erected on said property, but the title to said ore bin shallremain in me until said $300.00 is paid in full, and if the Buyers herein fail to pay said $300.00 within six months from this date, the title to said ore bin

ASSIGNMENT

shall revert absolutely to me, and the Buyers shall forfeit all sums paid under this Assignment as liquidated damages.

The Buyers do hereby agrdd to carry out all the terms and conditions of said Lease and Option hereinbefore referred to as required of the party of the second party therein and to relieve and hold harmless said second party thereon.

WITNESS my hand at Tucson, Arizona this 11th day of December, 1950.

Signed Walter N. Calvert
Walter N. Calvert

We, the undersigned Buyers in the foregoing assignment do hereby agree to and approve of all of the terms and conditions set forth therein.

WITNESS our hands at Tucson, Arizona, this 11th day of December, 1950.

Signed Robert Steinbacher
Robert Steinbacher

Norris J. Colvin
Norris Colvin

PAUL YEWELL

By Robert Steinbacher
His Agent

J. S. Burbridge

By Robert Steinbacher
His Agent

STATE OF ARIZONA)
County of Pima) ss.

The foregoing instrument was acknowledged before me this 11th day of December, 1950, by Robert Steinbacher and Norris Colvin, individually, and by Robert Steinbacher as agent for Paul Yewell and by Robert Steinbacher as agent for J. S. Burbridge, and by Walter N. Calvert. -- Erna N. Sornberger -- Notary Public. --

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. Dma - 996X

Date received 6/4/51

Participation

YEWELL RESEARCH LAB.
PAUL R. YEWELL
CACTUS MILLING CO.
J. S. BURBRIDGE
R. A. STEINBACKER
N. J. COLVIN

Name and address of applicant

Date May - 7 - 1951

FILL IN THIS BLOCK

Date of application May - 7 - 1951

Estimated cost $10,470.00

Mineral or metal Lead - Silver

Percentage of Government participation 50%

Location of mine Pagago Mining District, Pima County, Arizona
R. - 10 E.
T. - 17 S. (Section 12)

Date of filing MF-100 May - 7 - 1951

DMA Docket Number, if available 996 X

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

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

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

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

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

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

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

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

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

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

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

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

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

THE EXPLORATION

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

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

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

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

THE REQUIREMENTS AND COSTS

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

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

CERTIFICATION

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

Cactus Milling Co Yewell Research Lab — (Name of company)

By G. Gottenbacher — (Signature of authorized official)

May 29-51 — (Date)

Partner — (Title)

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

*Same as footnote on page 1.

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

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.
BOX 966
TUCSON, ARIZONA

DMA DOCKET # 966

1 Individual and Partnership
Paul R. Yewell as an individual
Cactus Milling Co. as a partnership

2 Partnership
J. S. Burbridge
R. A. Steinbacker
N. J. Colvin (P. O. Box # 966 Tucson, Ariz.)

3 None

4 (a) Mr. Paul R. Yewell 636 W. Oro Road Tucson, Arizona
Mining Engineer
Owner and operator of The Yewell Research Lab.
(b) Mr. J. S. Burbridge
Mine Operator (2 years Mineral Mountain Mining Co.)
Florence, Arizona - Welder & Maintenance.
Mr. R. A. Steinbacker
Mechanic (Business and store operator)
Mr. N. J. Colvin (Retired Lumber Businessman)

5 Lessee

6 Not Owner

7 Copy of Lease and licenor in good standing.

8 Machinery and equipment, Mill and Milling Supplies are all paid for, at present value of about $20,000.00 Each

9 $5,000.00

10 (a) Sunshine # 2, This claim joins The Sunshine # 1. (Real Prop.) The work is to open up the upper part of the vein above the portal of the old tunnell, and make an open cut mine.
(b) On Sunshine # 2 which contunues on from Sunshine # 1, which starts at Ash Creek. No maps of Sunshine # 2 available.

11 Sunshine and Sunbeam group of mining claims, always have been under these names.

12 43 miles from Tucson the nearest Railroad shipping point. Take the Tucson to Ajo road to Three Points Turn on to Sasabe road at Three Points and drive 11.7 miles South on Sasabe road, to a white and black sign which reads. Britten's Ranch - 8 miles., 2 more miles on up this road is the Sunshine Mine. This same road leads on out to the Sasabe road.

Giving two outlets from the mine. The mine ###### road to Britten's Ranch is very good, and is only fair the last two miles on up th The Sunshine Mine. However new cars drive up to the mine. The road West from the Sunshine Mine to the Sasabe road is only fair and should have a grader over it before any large scale hauling is done.

13 Water is available for domestic purposes from the wells in the bottom of Ash Creek.
(b) One Ford V-8 Power Unit and One Gaoline Jack Hammer Gas. consumation about 4 gal. per Hour.

14 One new ore shoot, in good condition, only needs a gate, car and about 150 feet of tract. Capacity about 25 tons.

15 The Ore will be Milled on the Sunshine # 1 Claim by Yewell Research Lab. and The Cactus Milling Co. , Under new Patients by Mr. P. R. Yewell, No water will be used and a test run on this ore on 16th of June 1950 is attatched.
The Cons. will be sacked and trucked to Tuesson and shipped to a Smelter.

16 "Ore Deposits of the Sierrita Mountains" by F. L. Ransome One complete Chapter on the Sunshine Mine.
U. S. Geog. Survey Bull. # 725

University of Arizona Bull # 140, Series # 19 Page 97

Preliminary Notes on the Sunshine Mine by C. H. James Copy enclosed.

Report of Sunshine Mine "Glory Hole" By H. C. Ertel Copy enclosed.

Available maps and drawings enclosed.

Reason for past suspension of work, " Lack of enough Water".

(b) Banner Mine) U. S. Geog. Surv. Bull.#725
University of Arizona

(c) Copy of test run on the average ore from the Sunshine # 1 Claim. Find Enclosed.

17 Not in production.

18 U. S. Geog. Surv. Bull # 725 and reports enclosed along with maps.

19 Very good climate.

20 Lead-Silver Ore Mostly Lead. OPinion of all mining men that have seen the property. There is another Blow out of Lead Silver Ore under the Lime Guarts Capping.

21 To remove the wast material by quarring method. Waste material to be dumped down the canyon or possibly used to make new roads and improve the old ones later on. About 6 months.

YEWELL RESEARCH LAB.
&
CACTUS MILLING CO.

22 The same formation at the start of the claim and very similiar to Sunshine # 1. The Silver content is strong about 3 to 5 ozs more than Sunshine # 1 and the Lead content shows 3 to 5% more lead. U. S. Geog. Surv. Bull # 725. No supportings maps available.

THE REQUIREMENTS AND COSTS

		Miner --- Mucker	Day	Month
# 23	(a)	3 men: one --- Two		
		One Miner	$15.00	$375.00
		Two Muckers---	$20.00	$500.00
	(b)	One Superintendent		$300.00
		Material		
	(c)	Ore gate - car & Track 12 pieces Lumber 2 x 6 x 18 ft. for bin and shoot now on property.	$150.	
	(d)	Primary Jay Crusher (Used)	500.	
	(e)	One Warsop power Tools Rock Drilling. To use in operating as an open cut mine.	600.	
	(f)	None.		
	(g)	Ford V-8 Power unit Rent		$4
		" " " " "		25.00
		Sledge Hammers, Picks, Bars, # Shovels, Powder Pliers Spoons etc.		10.00
	(h)	Sledge hawver handles, Bars for prying Shovels, etc. (Ten)	$0.	
	(I)	Gasoline (50 gal. per day $12.00) 25 da. Month.		300.00
		Water, for engines, Utilities etc.		25.00
		Material-	$1260.00	1535.00

$1535 per Month
at 6 Months for $9,210 - 9210.00
Total of $10,470.00

24 Six Months.

Removeable of the over burden and the ore exposed so that it will be ready to mine as by open cutting on the veins of Lead - Silver Ore.

MF - 202

Pima Arizona

7th - Day - of - May 1

YEWELL RESEARCH LAB. & CACTUS MILLING CO.

May - 7 -

1961

Fred W. Ficket (Law Offices)
140 N. Chruch Street
Tucson, Arizona
And

Fred W. Ficket as Executor of the
Estate of S. W. Purcell, Deceased.

7 May ---------- 1

YEWELL RESEARCH LAB. -- Paul R. Yewell (Individual)
&
CACTUS MILLING CO. ---- J. S. Burbridge
R. A. Steinpacker (Co-partnership)
N. J. Colvin

Arizona Pima Papago Mining
District - Sunshine Mine -- Range 11-E. Township 17S. - Section 12.
Recorded in Book BBB Records of Mines -- Page 122 & 123

50 ---------
Lead

6 Months

50

10,470.00 5,235.00 50----

YETELL RESEARCH LAB.
CACTUS MILLING CO.

(*b*) If deposit is other than placer:

(1) Submit assay plans and/or sections showing location and size of proved (measured) and probable (indicated) ore or mineral reserve.

(2) State the tonnage (indicate type of ton) and grade of each class of ore reserve, as above, and show how computed. Tabulated total ore reserve as follows:

TOTAL ORE OR MINERAL RESERVES

Ore or Mineral Reserve	Estimated Tons (a)	Metal or Mineral Content Per Ton (Grade) (b)	Gross Value Per Ton (c)	Recoverable Unit Value Per Ton (d)	Estimated Cost of Production Per Ton (e)
Measured (proved)					
Indicated (probable)					

(*c*) If placer:

(1) Give estimated total yardage and average marketable mineral content of each deposit.

(2) Submit map showing location of placer deposit and surrounding area, with all test holes or pits. Submit logs of each hole and test pit with depth and average value of each.

(3) Describe gravel, stating whether fine, medium or coarse; loose, tight, cemented, or frozen, and whether it contains stumps or boulders more than 1 foot in diameter; if so, how large, and in what proportion.

(4) Describe bedrock, giving type (granite, sandstone, shale, etc.) and state whether it is hard or soft, smooth, uneven or rough.

(5) Describe overburden, stating whether loose, tight, or cemented; fine or coarse textured; furnish estimate of average thickness and total amount.

(6) Tabulate the reserves using the form outlined above for ore or mineral reserves.

13. Access Roads:

Give road distances to shipping, supply and residence points, stating kind and condition of roads.

14. Water Supply:

State source and quantity of water available for operations and whether sufficient for all seasons of year.

15. Power:

State amount of power used, rate per hour, and source thereof.

16. Labor:

State number and classes (miners, muckers, millmen, etc.) of men employed during a recent representative payroll period.

17. Equipment and Facilities:

Describe present equipment on the property, including buildings. (State condition.) List major pieces of equipment now owned or controlled and in serviceable condition available for this operation.

18. Are there any particular conditions or circumstances affecting your operations that are not described above? If so, explain.

CERTIFICATION

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

Cactus Milling Co
Jewell Research Lab.
(Name of company)

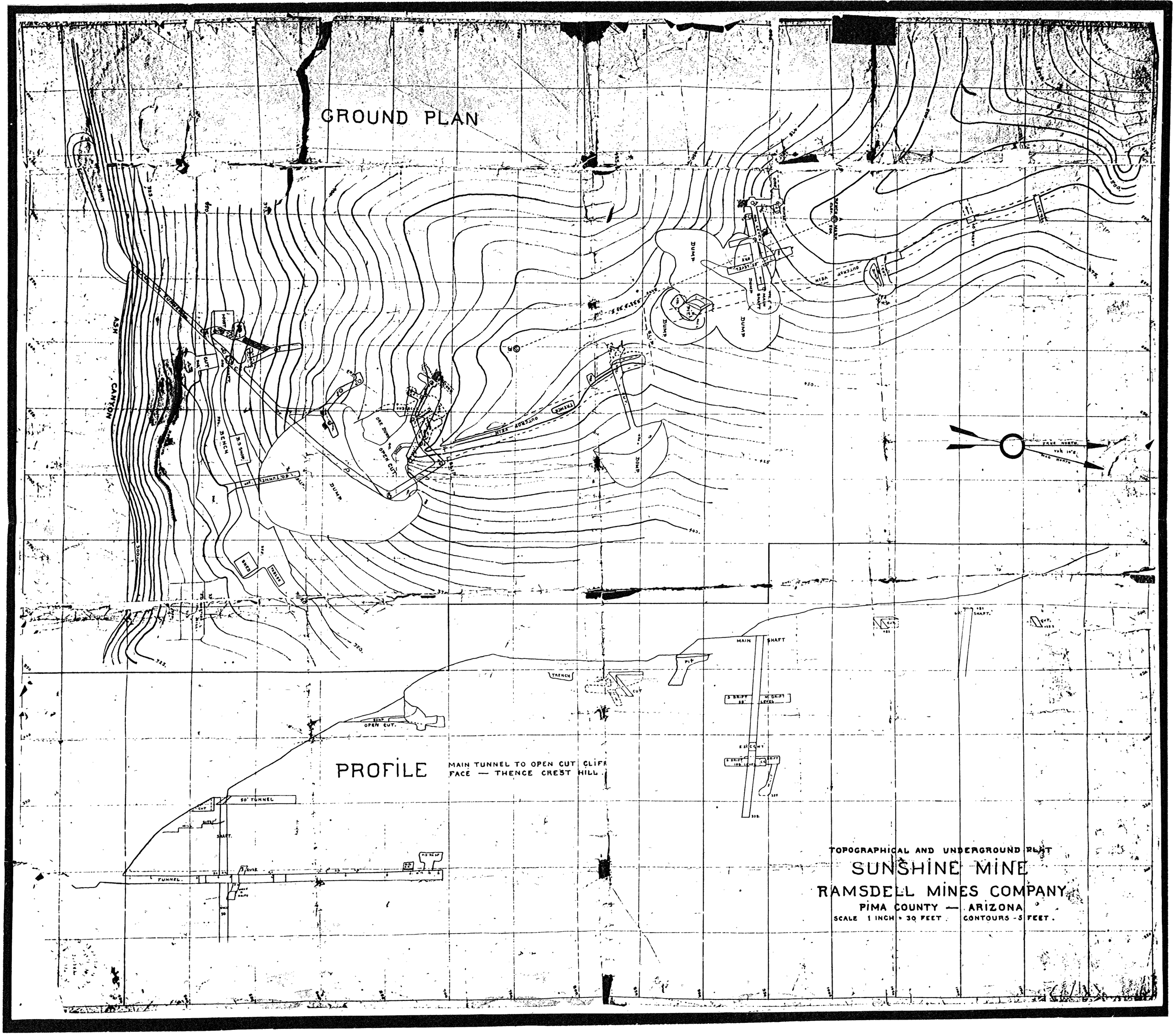
By Robert A. Steinbacher
J. S. Burbridge
(Signature of authorized official)

May 29-51
(Date)

Partner
(Title)

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

U. S. GOVERNMENT PRINTING OFFICE 16—63792-1


GROUND PLAN
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B.S. SHOP
50' TUNNEL
ORE DUMP
OPEN CUT
TRENCH
OUTCROP VEIN
MAIN SHAFT
BENCH MARK
TRUE NORTH
MAG NORTH
PROFILE
MAIN TUNNEL TO OPEN CUT CLIFF FACE — THENCE CREST HILL.
OPEN CUT.
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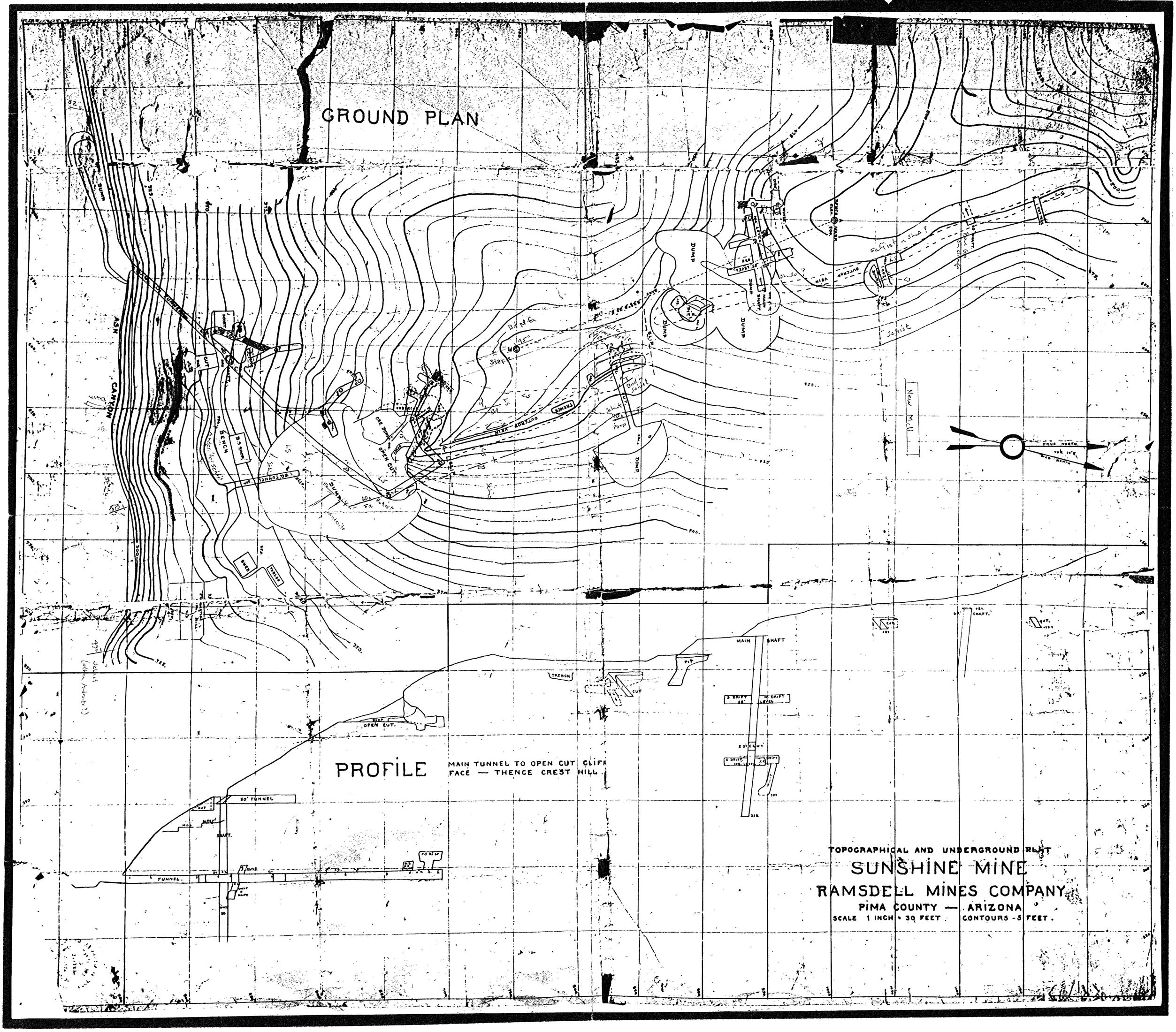
S. DRIFT
N. DRIFT LEVEL
E. ST. CROSS CUT
S. DRIFT 100 LEVEL
SHAFT.
TUNNEL.
TOPOGRAPHICAL AND UNDERGROUND PLAT
SUNSHINE MINE
RAMSDELL MINES COMPANY
PIMA COUNTY — ARIZONA
SCALE 1 INCH = 30 FEET. CONTOURS - 5 FEET.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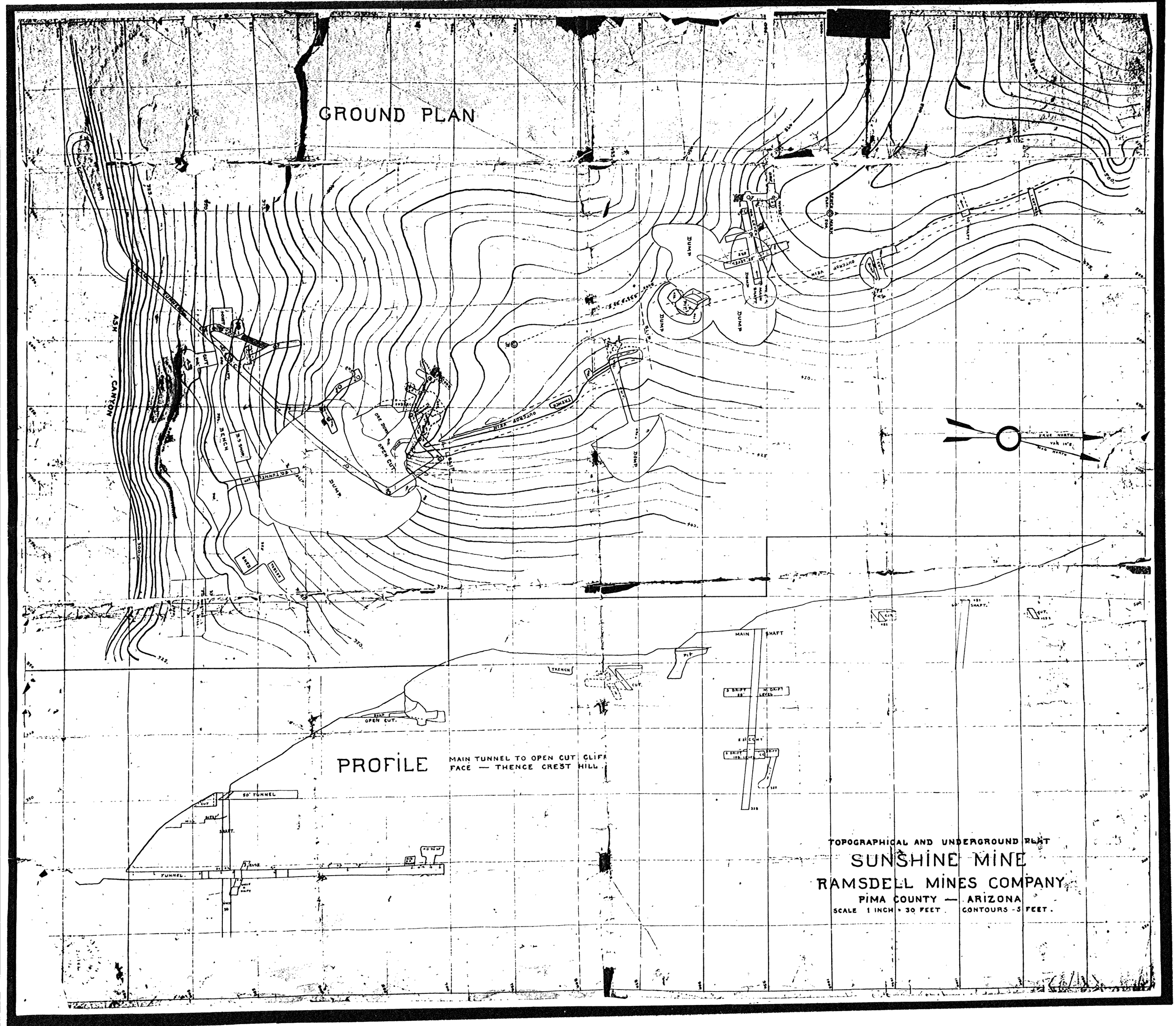
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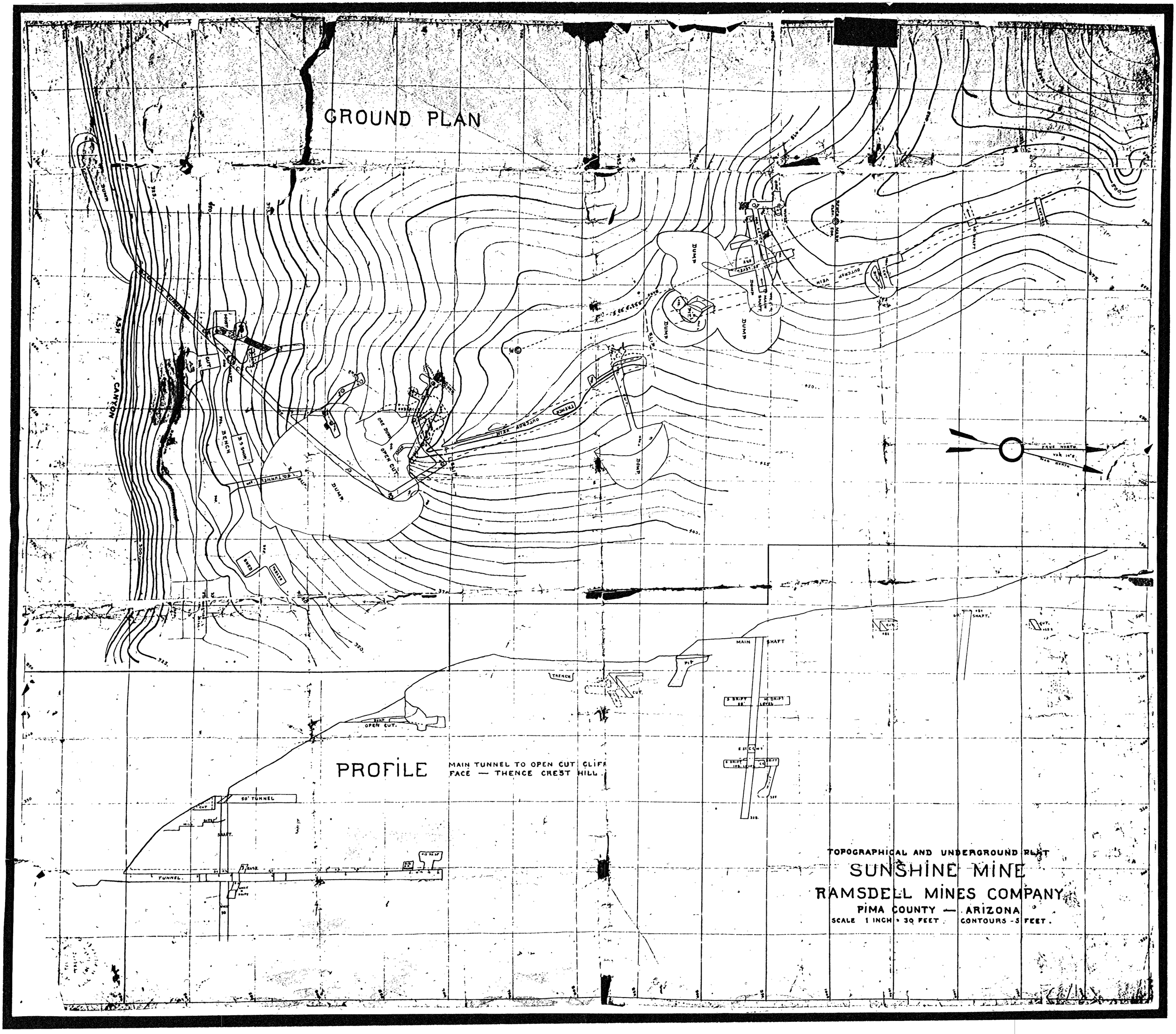
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