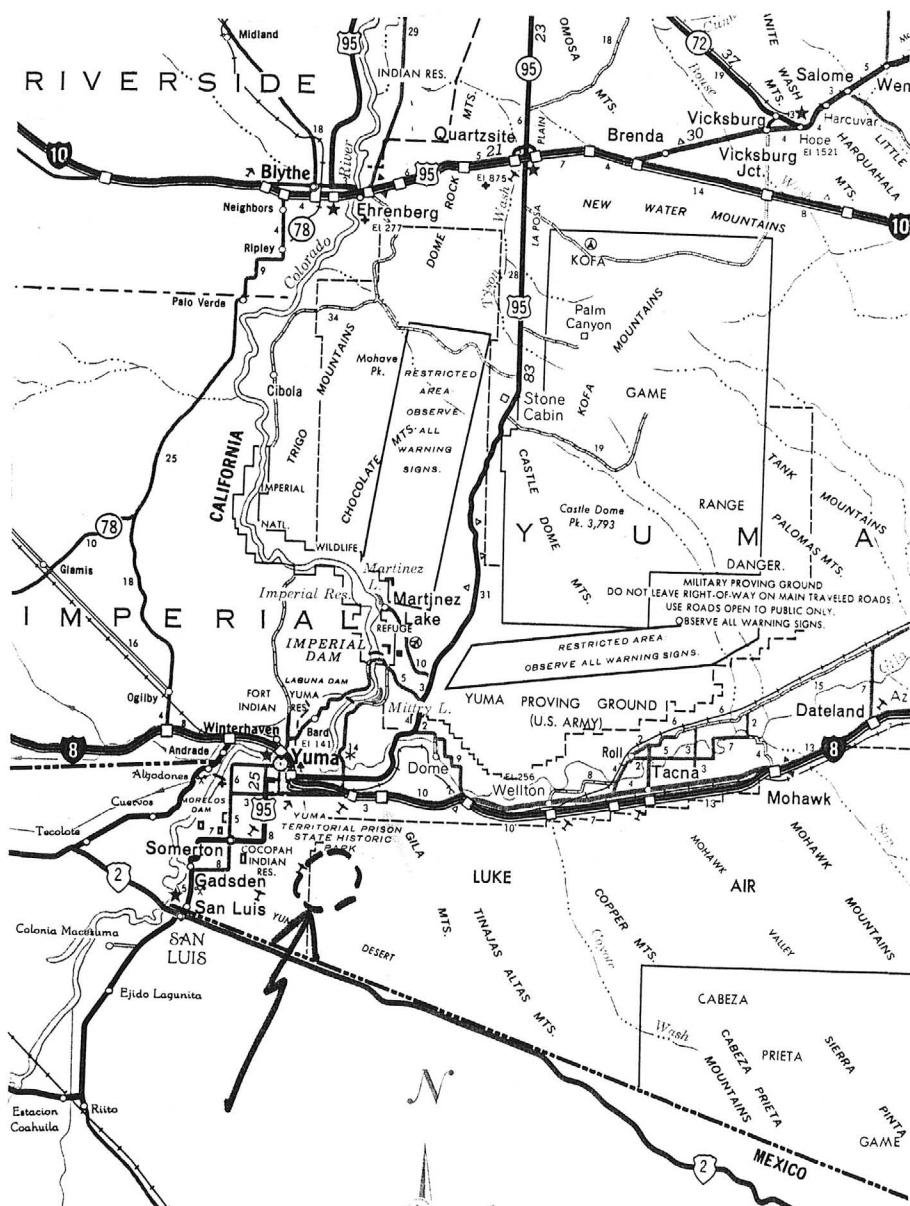


REGIONAL LOCATION MAP



ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM-K167 Gold ore
MM-K168 Gold ore

Yuma County

Fortuna District.

Fortuna Mine

MILS # 77

O-AKA's

Fortuna mine (file)

FORTUNA MINE (La Fortuna Mine)

Yuma County
La Fortuna Mining District

T10S R20W Secs. 18, 19, 29, 30

8 Patented Claims (?)

See: ABM Bulletin 125 p. 99, 100
ABM Bulletin 137 p. 152
ABM Bulletin 134 p. 189-199
ABM Bulletin 180 p. 159, 161, 163
USGS Professional Paper 610 p. 52
Engineering & Mining Journal Vol. 63, p. 664, 1 column
" " " " Vol. 93, p. 372
Arizona Mining Journal, Feb. 15, 1922, p. 15
La Fortuna "U" Files
Report of the Governor 1989, pp. 251-254
Maps (2) in map file upstairs

ARIZONA DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA

December-10,-1957

February 18, 1958

To the Owner or Operator of the Arizona Mining Property named below:

<u>Fortuna Mine</u>	<u>Gold</u>
(Property)	(ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

DEPARTMENT OF MINERAL RESOURCES

News Items

Date

6/20. YUMA

Mine

FORTUNA - MINE. PATENTED.

Location

30 MI. - S.E. YUMA. (WESTERLY PART.)

Owner

ELAN MINING CO.

Address

W. H. ENDERTON - SAN JOSE - CAL.

Operating Co.

JAMES E. WILSON - LESSEE.

Address (MINT.)

YUMA -

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals

AU. -

Men Employed

10

Production Rate

Mill, Type & Capacity 2 - 5 STAMP BATTERIES.

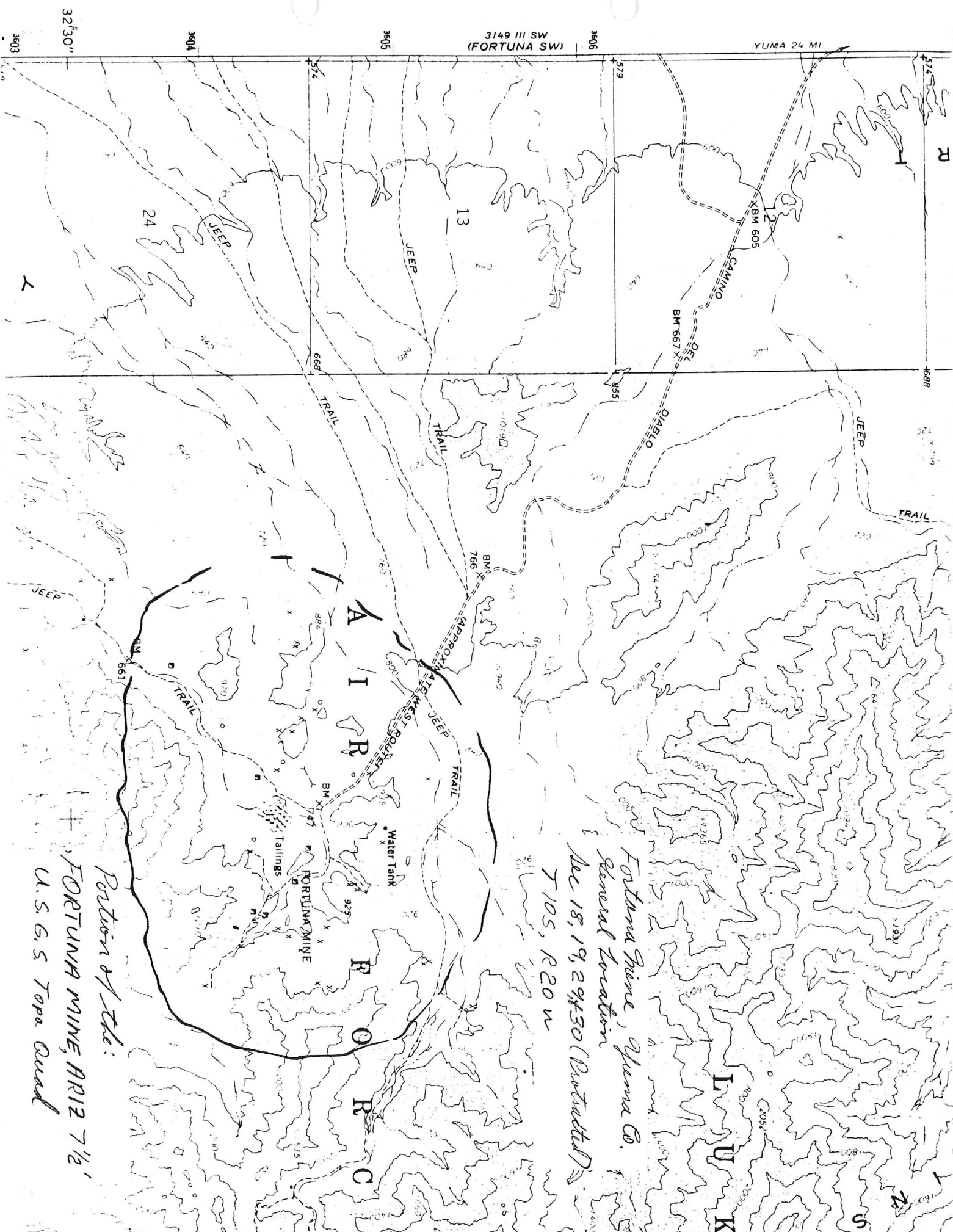
MILL NEAR BLAIDELL - 12 M. E. OF YUMA.

Power, Amt. & Type

MAKING GOOD -

Signed

(Over)



Portion of the:
FORTUNA MINE, ARIZ 7 1/2'
U.S.G.S Topo Quad

Fortuna Mine, Yuma Co.
General location
Dec 18, 19, 24, 30 (Protected)
T105, R20N

L
U
K

Gring. 0

Alexander

SUR No 2092
SUR. 600813-20, 1905.
100000.

King of Kings
was over

Claim
Name Unknown
Insor



IL RESOURCES
DNA
irgrounds
ONA



Elan Mining Co.,
% W. H. Enderton
San Jose, California



INSUFFICIENT ADDRESS

MINING JOURNAL
2-28-42

Yuma 14 - 8 T 10 S, R 20 W

Mr. H. Medland
Box 128, Yuma

(Moved. Left on 8/5/42)

Burton, H. C. & C. F.
Blaisdell, Arizona

2-20-40

See FORTUNA MINE - Re Report

FORTUNA MINE

YUMA

Guido E. Caglieri, Jr., P.O. Box 5895, Carmel, California, 93921, is the president and major stockholder of this mine. info. from letter dated 8/15/75 received from Mr. Caglieri

NJN WR 9/25/81: Dick Pricely of Phelps Dodge's Land Department called for information on the Fortuna Mine, Yuma County. His hope is to find a faulted segment or extension of the Fortuna's geology in non-withdrawn land. He is working on a project to come up with precious metal targets and is taking another look at some of the old large producers.

KAP WR 11/27/81: Richard Grondona reported continued interest in the La Fortuna Mine Yuma, County. The owners are currently negotiating a new lease with the government. The mine is located within the boundaries of the Luke Air Force Range.

J. Jett 3/26/82: Phoenix office visit with Sidney S. Alderman Jr, Mining Geologist, 681 Market Street, Room 523, San Francisco, California 94105. Mr. Alderman said he was a partner in the firm of AIM Inc. in San Carlos, California. This was the firm that did an evaluation study for the U.S. Army Corps of Engineers on the Fortuna Mine.

He has separated from AIM and is now working alone. He is presently evaluating two prospects on the Cabeza Prieta for the Corps of Engineers. I discussed the Fortuna mine with him. He could not provide us with a copy of the evaluation study, however, he did mention that his recommendation was to separate the Fortuna area and release it from the bombing range withdrawal.

MG WR 7/3/87: Learned that all 12 patented claims of Fortuna mine property (file) Yuma County are owned by Z. A. Inc., c/o O.C. Pratt, VP, 220 Sansome St. 14th Floor, San Francisco, CA 94101.

KAP WR 9/25/87: Ben H. Slothower, P O Box 3226, Bozeman, Montana 59772, phone (406) 586-1735 and Sidney S. Alderman, Jr., 909 Hearst Building, 5 Third Street, San Francisco, California 94103, phone (415) 974-1190 were in to obtain data on the Fortuna Mine (file) Yuma County located on the Luke Air Force Range. They have been hired by the Army Corps of Engineers to value the property for lease purposes.

PH

AIR MAIL - SPECIAL DELIVERY

CORPS OF ENGINEERS, U. S. ARMY

OFFICE OF THE DISTRICT ENGINEER
LOS ANGELES DISTRICT
751 SOUTH FIGUEROA STREET
LOS ANGELES 17, CALIFORNIA

ADDRESS REPLY TO:
DISTRICT ENGINEER
LOS ANGELES DISTRICT
CORPS OF ENGINEERS
P. O. BOX 17277, F.O.Y. STATION
LOS ANGELES 17, CALIFORNIA

REFER TO FILE NO.

SPLRH 601.1 (Williams B&G Range,
Arizona - Mineral Interests)

20 December 1954

Mr. Charles H. Dunning, Mining Engineer
817 West Madison Street
Phoenix, Arizona

Dear Mr. Dunning:

In accordance with your letter of 8 December 1954 addressed to Mr. David Jones of the San Francisco District Engineer Office, Los Angeles District Purchase Order No. 19-50325 is being issued in the amount of \$350, calling for the submission of eight copies of a mineral appraisal report estimating the present day fair market value of the Fortuna Mine, consisting of five patented mining claims known as CHRISTMAS GIFT, HALF MOON, LA FORTUNA, ARIZONA AND OREGON, comprising 96.108 acres. It is believed that you should arrange to have your assaying done locally in order to avoid a delay in the submission of your report which will be due on 20 January 1955.

Mr. Emmett M. Hamlin, of the San Francisco District Mining Branch, will arrive in Yuma, Arizona, at 7:45 p.m. on Monday, 27 December 1954, on Bonanza Airline Flight No. 23. Mr. Hamlin is familiar with the property, having been on the ground with one of the owner's representatives. He will have maps and other data with him and will arrange for access to the area by Air Force desert vehicle.

Please advise immediately if these arrangements are satisfactory to you, in order that this office can inform Mr. Hamlin. It is also requested that this office be furnished your date of birth and full name for Personnel purposes.

FOR THE DISTRICT ENGINEER:

Very truly yours,

L. B. Otterness
L. B. OTTERNESS
Chief, Appraisal Branch
Real Estate Division

AIR - MAIL

SPECIAL DELIVERY

AIM INC.

AGRICULTURAL & INDUSTRIAL MINERALS, INC./ OFFICES & LABORATORY 1360 BAYPORT AVENUE
SAN CARLOS, CALIF. 94070
U.S.A.

December 8, 1980

Mr. John H. Jett, Director
Department of Mineral Resources
State of Arizona
Phoenix, AZ 85007

1980

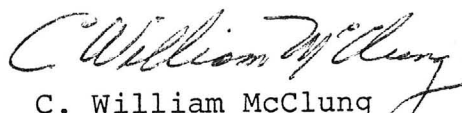
Dear Mr. Jett:

We would be pleased to comply with your request of December 5, 1980 for mineral survey data, but the reports are not our property and we cannot give them out. I'm sure however, they can be obtained from the client, the U. S. Army Corps of Engineers.

The party to contact is Mr. Richard Rayburn, U. S. Army Corps of Engineers, 300 North Los Angeles Street, Los Angeles, CA 90053.

The reports you are interested in were made under Contract No. DACA09-77-C-0007, dated March 1977.

Sincerely,


C. William McClung

CWM:b

ORVILLE C. PRATT, IV

ATTORNEY AT LAW

PENTHOUSE-SAN FRANCISCO

1231 MARKET STREET

SAN FRANCISCO, CALIFORNIA 94103

OF COUNSEL
JACK K. BERMAN
A PROFESSIONAL CORPORATION

TELEPHONE
AREA CODE 415
626-3344

October 27, 1978

TO WHOM IT MAY CONCERN

This will certify that Richard J. Grondona of Phoenix, Arizona, has been duly empowered by resolution of this corporation under date of June 24, 1978 to act as agent on behalf of Z A, Inc., a Nevada corporation, to negotiate with Marine Corps. Air Station, Yuma, Department of Defense, or any governmental agency or body regarding entry into and exploration on the property of said corporation in Yuma County, Arizona, and to speak on behalf of said corporation in connection with those patented mining claims known and described as CHRISTMAS GIFT, HALF MOON, LA FORTUNA, ARIZONA and OREGON located in Township 10 South, Range 20 West, Gila and Salt River Meridian, in the Fortuna Mining District, Yuma County, State of Arizona, and those certain patented load mine claims known as ALTA, NEW YEARS, ALICE, FAMOUS XX BAILY XX, BARNEY XX, and WASHINGTON, located in Section 16, 17, 20 and 21, Township 10 South, Range 20 West, G & S R B & M, Fortuna Mining District, Yuma County, Arizona.

I certify said resolution is still in full force and effect.

IN WITNESS WHEREOF, as duly authorized secretary and by direction of the Board, I have affixed the corporate seal this 27th day of October, 1978.

Z A, INC., a Nevada corporation,

By Orville C. Pratt
Secretary

OVER

GUIDO E. CAGLIERI, JR.

P.O. BOX 5895
CARMEL, CALIFORNIA 93921

President, ZA, Inc, owners of
Fortuna mine, Yuma, Ariz

A MEMORANDUM COVERING THE INTENDED METHOD OF PROCESSING
THE FORTUNA TAILINGS:

The tailings being discussed are presently located at the Fortuna mine, Yuma county, Arizona. They are the result of milling approximately 226,000 tons of ore which came from both the original Fortuna vein and the Coue orebody discovered and worked by the Elan Mining Company from 1923 to 1927. As a matter of interest the Coue orebody was in a different ore horizon than the Fortuna vein although quite similar in type of ore.

The mill that produced these tailings consisted of twenty stamps which were exceptionally heavy (13,500 pounds each) this accounts for the unusual mesh size distribution with a much larger percentage in the fine mesh sizes than is normally found in stamp mill tailings.

The ore was all free milling and consisted of a granular, high temperature quartz either very high mesothermal or low hypothermal. This has been verified by the writer by means of thin section studies done by him while attending the University of Washington School of Mines.

Because of their ore derivation and particle size, as determined by standard screen size analysis, the tailings may be considered almost ideal for either bulk or pad cyanide leaching in combination with the leach-carbon adsorption and recovery method. (See references listed)

The Laboratory work done on these tailings, by the writer at the U.W. School of Mines and checked by the Lopez Metallurgical Laboratory, Los Angeles, California has established the following:

The particle size of the contained Au is such that over 85% has been released and, therefore, is amenable to cyanide leaching. These tailings are very "sharp" and clean which accounts for the very rapid leaching cycle again established by the writer when designing the intended flow sheet for a processing plant.

References:

Bu. Mines Information Circular IC-8770
Bu. Mines Technical Report #20
Bu. Mines Report of Investigations #4672
Bu. Mines Technical Progress Report #8
Society of Mining Engineers of AIME Preprint Number 68-AS-342

At the time surveying, mapping and drilling was done the estimated tonnage of the tailings in place was 86,000.

Nov. 22, 1980

MEMORANDUM FOR FILE

From: John H. Jett, Director
Subject: Fortuna Mine, Yuma County
Date: December 5, 1980

Mr. Richard Grondona, representing [↓]~~AZ~~^A Inc. (Nevada), owners of Fortuna Mine in Yuma County, was in the office. He provided maps, geological reports, and some letters for the files. He stated he had been to the property recently and brought back 200 lbs of tails. He took the tails to a Mr. Glen Tuttle, who has a small mill about 16 miles north of Yuma. Mrs. Tuttle is owner of Treasure Shack in Tempe.

Mr. Tuttle has 11 claims roadside, off Highway 95, near McFalls Bridge (confluence of Colorado-Gila Rivers). Loader, crusher, ainley bowl and pans are used. The 200 lb sample was reduced to two pans of concentrate. Some gold was recovered and a sample sent for assay. He provided the Department with maps and geologic reports for our files.

JHJ:mw

ORVILLE C. PRATT, IV

ATTORNEY AT LAW

PENTHOUSE-SAN FRANCISCO

1231 MARKET STREET

SAN FRANCISCO, CALIFORNIA 94103

OF COUNSEL
JACK K. BERMAN
A PROFESSIONAL CORPORATION

TELEPHONE
AREA CODE 415
626-3344

November 14, 1980

Mr. John H. Jett
Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona 85007

Dear Mr. Jett:

We are pleased to transmit copies of some reports regarding the Fortuna Mine per your discussion with Colonel Richard J. Grondona, Second Vice President of ZA, Inc. for your records.

Yours very truly,



ORVILLE C. PRATT, IV
Secretary and General
Counsel

OCP/lfo

AIM INC.

AGRICULTURAL & INDUSTRIAL MINERALS, INC./ OFFICES & LABORATORY 1360 BAYPORT AVENUE
SAN CARLOS, CALIF. 94070
U.S.A.

February 11, 1977

A. Z., Inc.
c/o Oroville C. Pratt, IV
1231 Market Street
San Francisco, California 94103

Dear Mr. Pratt:

Re: Tract F658
Christmas Gift, Half Moon, La Fortuna
Arizona, Oregon. Tract M-4-F, Alta
New Years, Alice, Famous XX, Bailey XX,
Barney XX, Washington

AIM, Inc. has been retained by the U. S. Army Corps of Engineers to determine the fair market value of entire mineral estate of the subject properties. Your name has been given us as the owner or owner's representative.

This letter is to advise you that our appraisal team will visit the properties this February 21st, 22nd and 23rd. You are invited to be present or to send a representative. If you desire to exercise this privilege, please contact our office and they will tell you how to reach our field crew.

We also invite you to submit any data and information concerning your properties which may help us arrive at their fair market value.

Sincerely yours,

C. William McClung
C. William McClung

CWM:b

INVOICE

Name: Charles H. Dunning, Mining Engineer

Mail Check to: 817 West Madison Street
Phoenix, Arizona

Name of Project: WILLIAMS BOMBING AND GUNNERY
RANGE - MINERAL INTERESTS

Purchase Order: 19-50325

Mineral Report estimating present day fair market value of the Fortuna Mine, consisting of five patented mining claims known as CHRISTMAS GIFT, HALF MOON, LA FORTUNA, ARIZONA AND OREGON, comprising 96.108 acres.

Flat Fee. \$350.00

"I certify that the above bill is correct and just; that payment therefor has not been received; that all statutory requirements as to American production and labor standards, and all conditions of purchase applicable to the transactions have been complied with, and that State or local sales taxes are not included in the amount billed."

CHARLES H. DUNNING
Mining Engineer

Mineral Report as indicated above
has been completed and statement is
approved for payment.

HAROLD E. SPICKARD
Chief, Real Estate Division

Period Covered: 20 December 1954

December 5, 1980

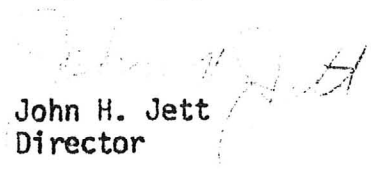
Mr. C. William McClung
A.I.M. Inc.
1360 Bayport Avenue
San Carlos, California 94070

Dear Mr. McClung:

As I understand, your organization did a study for the U.S. Army Corp of Engineers to determine the market value of the mining claims owned by A.Z. Inc. These claims are located in the Fortuna Mining District, Yuma County, Arizona.

As a state mineral resources agency, is it possible we could be provided with a copy of this study for our records? Any consideration of this request will be appreciated.

Very truly yours,


John H. Jett
Director

JHJ:mw

bc: Mr. Richard Grondona
3620 North 6th Avenue
Phoenix, Arizona 85013

March 19, 1981

Richard Rayburn
U. S. Corps of Engineers
300 North Los Angeles Street
Los Angeles, California 90053

Re: Contract No. DACA09-77-C-0007
Dated March 7, 1977, AIM, Inc.

Dear Mr. Rayburn:

On December 22, 1980, I wrote to you (see attached) requesting a copy of the above study which was conducted to determine the market value of mining claims owned by A.Z. Inc. in the Fortuna Mining District, Yuma County, Arizona.

As mentioned in the first letter, our agency is a state mineral resources agency and would like very much to have the data for our records.

Any help you could give me on this matter would be greatly appreciated.

Very truly yours,

John H. Jett
Director

JHJ:at

Enclosure

bcc: Richard Grondona
3620 N. Sixth Avenue
Phoenix, Arizona 85013

December 22, 1980

*1 sub in
Fortuna
min file*

Richard Rayburn
U.S. Corps of Engineers
300 North Los Angeles Street
Los Angeles, California 90053

Re: Contract No. DACA09-77-C-0007
Dated March 7, 1977, AIM, Inc.

Dear Mr. Rayburn:

Subject contract was for a study to determine the market value of mining claims owned by A.Z. Inc. The claims are located in the Fortuna Mining District, Yuma County, Arizona.

As a state mineral resources agency, we would like to be provided with a copy of this study for our records. We are more interested in the data used to determine a value rather than in the conclusion itself.

Any consideration will be appreciated.

Very truly yours,

John H. Jett
John H. Jett
Director

JHJ:mw

Encl

bc: Mr. Richard Grondona (FORTUNA FILE)
3620 N. Sixth Avenue
Phoenix, Arizona 85013

The Fortuna mine, near Yuma, recently acquired by Mr. C. D. Lane, of California, and his associates, has largely added to the list of valuable gold properties in the Territory. It is also a prominent example of the fact that the gold-bearing regions of Arizona have been greatly neglected and not well prospected or developed.

The mines and mill of this company are situated about 30 miles southeast of Yuma City, in Yuma County. It is in a region without a natural supply of water, but capital and skill have remedied this defect by pumping water from the Gila River at a point 12 miles north of the mine. A large and powerful pump requiring 100-horse power is placed at the river and the water is forced through a 4-inch pipe to the mill at the mine, overcoming an elevation of 750 feet. The difficulty of working a mine and mill without water is thus overcome and the supply is unfailling.

The mine proper or principal lode, consists of a glassy, rose-colored quartz, slightly copper stained in places, and partially covered also by iron rust or oxide, from the decomposition of pyrites. The gold is coarse and free. This main ledge is 20 feet wide, and dips to the eastward in the general plane or course of the surrounding formation—a hornblende schist. The dip is about 32 degrees. A shaft has been sunk in this ledge or ore body to a depth of 220 feet, all of the way in ore, which carries the same value in gold from the top to the bottom of the shaft. There are three drifts extending at different levels from this shaft, with an aggregate length of 250 feet, and these are all in ore.

From these openings 6,300 tons of ore have been extracted in the last four months, producing gold to the value of \$220,500.

The plant for hoisting and milling consists of a first-class double-reel hoist and a 20-stamp mill.

The average output of the mine since it started has been as follows:

Tons crushed per day	52½
Assay value of the ore per ton (gold)	40
Amount saved in mill per ton (gold)	35
Value of tailings per ton (gold)	5
Total tons crushed in four months	6,300
Total amount saved in gold bullion	220,500
Average production per month	55,000

TAKEN FROM REPORT OF THE GOVERNOR OF ARIZONA 1896 LA FORTUNA MINE -Cont'd.

There are also upon this property, and within less than 2,000 feet of the Fortuna, four other distinct and well-defined ledges—one 10 inches wide, one 2 feet wide, one 4 feet wide, and one averaging 12 feet wide. The assay value of the ores from these ledges averages, respectively, \$20, \$25, \$8, and \$12 per ton. The several shafts or pits sunk on these ledges amount in all to about 375 feet and the drifting to 320 feet. All this sinking and drifting is one ore, and from the prospects it would appear that these ledges will develop into extensive and valuable mines comparable with the Fortuna. Work is progressing upon all.

Thus in a few short months this place (Fortuna) has developed from a desert and wilderness into a prosperous and growing camp, and intelligent, legitimate mining, with sufficient capital, is having its golden reward.

LA FORTUNA MINE 1896

From 80 tons of rock crushed daily the average product is perhaps \$48,000 worth of gold per month. Some months they have produced as high as \$90,000.

LA FORTUNA MINE

The La Fortuna mine, recently put in operation, has a 20-stamp mill running night and day, and the production of gold averages \$75,000 per month.

^{LA}The Fortuna mine, near Yuma, recently acquired by Mr. C. D. Lane, of California, and his associates, has largely added to the list of valuable gold properties in the Territory. It is also a prominent example of the fact that the gold-bearing regions of Arizona have been greatly neglected and not well prospected or developed.

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Average production per month	55,000

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Thus in a few short months this place (Fortuna) has developed from a desert and wilderness into a prosperous and growing camp, and intelligent, legitimate mining, with sufficient capital, is having its golden reward.

From 60 tons of rock crushed daily the average product is perhaps \$48,000 worth of gold per month. Some months they have produced as high as \$90,000. (Report of Governor 1899)

LA FORTUNA MINE

The La Fortuna mine, recently put in operation, has a 20-stamp mill running night and day, and the production of gold averages \$75,000 per month. (Report of Governor 1897)

This specimen is now in the ADMR Museum X see number 5.000.000
MINERAL MEN FOR DEPARTMENT OF LIBRARY ARCHIVES
Date August 1940

Specimen No. 4, collected by Will V. Pool
(Wrap each specimen, or place in a substantial bag, separately, with a number identical with the number on this card)

Name of ore Horn Bliss schist
Minerals contained copper-silver-gold

Gangue
Depth at which taken 400 ft level.
Approximate mineral content (in terms of average per ton):

Quantity or %

Copper
Gold
Silver

Value

\$

Name of mine or claim Fortuna Mine
Group Fortuna Group
District Fortuna District
County Yuma county
Location (distance and direction by highway from what town) 30 miles from Yuma (S.E.)
Owner of property Elan Mining Co.
Operator
Mine active or inactive Inactive
If inactive, when operated 1924

Specimen presented by Will V. Pool
Notes: at present, leased by
Burton Bros Mining Co. California
operating on small vein for last 2 yrs.
will begin operating in old Fortuna shaft
If more space is desired for notes, use other side

on 1st of October 1940.

K167

Specimen No. 2, collected by Will V. Pool Date August 1940
(Wrap each specimen, or place in a substantial bag, separately, with a number identical with the number on this card)

Name of ore <u>Rose Quartz</u>		Name of mine or claim <u>Fortuna Mine</u>
Minerals contained <u>copper - silver + gold</u>		Group <u>Fortuna Group</u>
Gangue _____		District <u>Fortuna District</u>
Depth at which taken <u>250 ft. level</u>		County <u>Yuma, County</u>
Approximate mineral content (in terms of average per ton):		Location (distance and direction by highway from what town) <u>30 miles from Yuma, (S.E.)</u>
Quantity or %	Value	Owner of property <u>Elan Mining Co.</u>
Copper _____	\$ _____	Operator _____
Gold _____	_____	Mine active or inactive <u>Inactive</u>
Silver _____	_____	If inactive, when operated <u>1924</u>
_____	_____	Specimen presented by <u>Will V. Pool</u>
_____	_____	Notes: <u>At present, leased by</u>
_____	_____	<u>Burton Bros. Mining Co. of California</u>
_____	_____	<u>operating on small vein for last 2 yrs.</u>
_____	_____	<u>will begin operations on Old Fortuna shaft</u>
_____	_____	If more space is desired for notes, use other side
_____	_____	<u>on 1st of October 1940</u>

^{LA}
The Fortuna mine, near Yuma, recently acquired by Mr. C. D. Lane, of California, and his associates, has largely added to the list of valuable gold properties in the Territory. It is also a prominent example of the fact that the gold-bearing regions of Arizona have been greatly neglected and not well prospected or developed.

The mines and mill of this company are situated about 30 miles southeast of Yuma City, in Yuma County. It is in a region without a natural supply of water, but capital and skill have remedied this defect by pumping water from the Gila River at a point 12 miles north of the mine. A large and powerful pump requiring 100-horse power is placed at the river and the water is forced through a 4-inch pipe to the mill at the mine, overcoming an elevation of 750 feet. The difficulty of working a mine and mill without water is thus overcome and the supply is unailing.

The mine proper or principal lode, consists of a glassy, rose-colored quartz, slightly copper stained in places, and partially covered also by iron rust or oxide, from the decomposition of pyrites. The gold is coarse and free. This main ledge is 20 feet wide, and dips to the eastward in the general plane or course of the surrounding formation—a hornblende schist. The dip is about 32 degrees. A shaft has been sunk in this ledge or ore body to a depth of 220 feet, all of the way in ore, which carries the same value in gold from the top to the bottom of the shaft. There are three drifts extending at different levels from this shaft, with an aggregate length of 250 feet, and these are all in ore.

From these openings 6,300 tons of ore have been extracted in the last four months, producing gold to the value of \$220,500.

The plant for hoisting and milling consists of a first-class double-reel hoist and a 20-stamp mill.

The average output of the mine since it started has been as follows:

Tons crushed per day	52½
Assay value of the ore per ton (gold)	40
Amount saved in mill per ton (gold)	35
Value of tailings per ton (gold)	5
Total tons crushed in four months	6,300
Total amount saved in gold bullion	220,500
Average production per month	55,000

There are also upon this property, and within less than 2,000 feet of the Fortuna, four other distinct and well-defined ledges—one 10 inches wide, one 2 feet wide, one 4 feet wide, and one averaging 12 feet wide. The assay value of the ores from these ledges averages, respectively, \$20, \$25, \$8, and \$12 per ton. The several shafts or pits sunk on these ledges amount in all to about 375 feet and the drifting to 320 feet. All this sinking and drifting is one ore, and from the prospects it would appear that these ledges will develop into extensive and valuable mines comparable with the Fortuna. Work is progressing upon all.

Thus in a few short months this place (Fortuna) has developed from a desert and wilderness into a prosperous and growing camp, and intelligent, legitimate mining, with sufficient capital, is having its golden reward.

From 60 tons of rock crushed daily the average product is perhaps \$40,000 worth of gold per month. Some months they have produced as high as \$90,000. (*Report of Governor 1899*)

LA FORTUNA MINE

The La Fortuna mine, recently put in operation, has a 20-stamp mill running night and day, and the production of gold averages \$75,000 per month. (*Report of Governor 1897*)

ORDER AND VOUCHER FOR PURCHASE OF SUPPLIES OR SERVICES				ORDER NUMBER 19-25	SHEET NO. 1	NO. OF SHEETS 1
DEPARTMENT U. S. Army		DATE OF ORDER 27 December 1954		REQUISITION NUMBER LK-4042		D. O. VOUCHER NUMBER
ISSUED BY Los Angeles District Corps of Engineers 751 So. Figueroa Street Los Angeles 17, California		DATE OF DELIVERY On or before February 1955		DISCOUNT TERMS Net		PAID BY
TO: (Contractor and address) Charles M. Dunning 817 West Madison Street Phoenix, Arizona		MAIL INVOICES TO Los Angeles District Corps of Engineers P.O. Box 17277, Foy Sta. Los Angeles 17, Calif.				(For use of Paying Office)
FOR: (Consignee and Address) Los Angeles District Corps of Engineers, U. S. Army 751 So. Figueroa Street Los Angeles 17, California		PAYMENT WILL BE MADE BY Finance and Accounting Officer, U. S. Army Fort MacArthur, California		DELIVERY F. O. B.: <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (as specified in Schedule)		Appr Br.
TYPE OF ORDER	<input checked="" type="checkbox"/> PURCHASE		IN ACCORDANCE WITH YOUR oral quotation OF 20 December 1954 PLEASE FURNISH THE FOLLOWING ON THE TERMS SPECIFIED ON BOTH SIDES OF THIS ORDER AND ON THE ATTACHED SHEETS, IF ANY, INCLUDING DELIVERY AS INDICATED. THIS PURCHASE IS NEGOTIATED UNDER AUTHORITY OF SEC. 2(C) (1), ARMED SERVICES PROCUREMENT ACT OF 1947, AS AMENDED (41 U.S. Code 151, et seq).			
	<input type="checkbox"/> DELIVERY		THIS DELIVERY ORDER IS SUBJECT TO INSTRUCTIONS CONTAINED ON THIS SIDE ONLY OF THIS FORM AND IS ISSUED ON ANOTHER GOVERNMENT AGENCY OR IN ACCORDANCE WITH AND SUBJECT TO THE TERMS AND CONDITIONS OF THE FOLLOWING BASIC CONTRACT:			
MARK ALL PACKAGES AND PAPERS WITH CONTRACT AND/OR ORDER NUMBERS			UNITED STATES OF AMERICA BY OTTO N. RUGEN <i>Otto N. Rugen</i> CONTRACTING OFFICER			
SCHEDULE						
ITEM NUMBER	SUPPLIES OR SERVICES	QUANTITY (No. of Units)	UNIT	UNIT PRICE	AMOUNT	QUANTITY ACCEPTED
	Furnish eight (8) copies of Mineral Report estimating the present day fair market value of the Fortuna Mine, consisting of five (5) patented mining claims known as CHRISTMAS GIFT, HALF MOON, LA FORTUNA, ARIZONA AND OREGON, comprising 96.108 acres - WILLIAMS B&B RANGE		FOR THE JOB		\$ 350.00	
CONFIRMATION						
					TOTAL AMOUNT	\$ 350.00
MEMORANDUM					DIFFERENCES	
AMOUNT VERIFIED: CORRECT FOR						INITIALS
ACCOUNTING AND APPROPRIATION DATA						
2152020 508-6016 P3141-07 S04-353						
DO 259 30.1						
PAID BY	CHECK NUMBER	DATED	FOR (Amount)	CASH	ON (Date).	
				\$		
	ON TREASURER OF THE UNITED STATES IN FAVOR OF			PAYEE (Sign original only when paid in cash)		
	PAYEE NAMED ABOVE.			BY	TITLE	

DD FORM 738
REPLACES DA AGO FORM 383 SERIES, NAV S and A FORMS 110 & 459, WHICH ARE OBSOLETE AFTER 31 MAR 54.
U. S. GOVERNMENT PRINTING OFFICE: 1953 - 278485

3- CONTRACTOR

Form approved by
Comptroller General, U.S., 25 August 1953

20 March 1940

Mr. T. Pilger,
70 Wall Street,
New York City, New York.

Dear Mr. Pilger:

Some time ago you asked me to get information regarding the Burton Brothers operations at Blaisdell, Arizona.

I am enclosing herewith a copy of a memorandum from our field engineer in that district.

While in Yuma, I had a chance to talk with Mr. Maitland, and while they are operating on a small scale, it seems that they are starting on a sound basis. We are particularly interested in this work as they are taking custom ore and supplying an outlet for some of the small producers in that area.

With best wishes, I am

Yours very truly,

J. S. Coupal
Director

JSC-jrf

Encl.

APPRAISAL REPORT (MINING)

PROJECT
WILLIAMS BOMBING & GUNNERY RANGE, ARIZ.

TRACT

M-3-F

STATE

ARIZONA

COUNTY

YUMA

CITY

DISTRICT

TOWNSHIP 10S., R20W., G. & S.R.M.

PROPERTY OF GUIDO E. CAGLIERI, JR.

ADDRESS

2620 LARKIN STREET
SAN FRANCISCO, CALIFORNIA

AREA PATENTED-SURVEYED - 96.108 ACRES

APPRAISED VALUATION

TOTAL PRESENT MARKET VALUE

SEVERANCE DAMAGE

VALUE OF GROWING CROPS
ANNUAL EASEMENT RENTAL

\$ _____
\$ _____
\$ _____
\$ 250.00

(FOR METHOD OF APPRAISAL AND SUPPORTING DATA SEE PAGES 2, 3, 4, 6 AND 7).

I CERTIFY THAT I HAVE CAREFULLY EXAMINED THE ABOVE DESCRIBED PREMISES AND THE AMOUNT INDICATED REPRESENTS MY BEST UNBIASED JUDGMENT AS TO THE PRESENT MARKET VALUE OF THE FEE SIMPLE TITLE THERETO, EXCEPT AS OTHERWISE INDICATED. I DO FURTHER CERTIFY THAT I HAVE NO PRESENT OR INTENDED FUTURE INTEREST THEREIN.

DATE 17 NOV. 1952

APPRAISER

APPROVED BY

APPROVED

APR 17 1953

Wm. S. EDELMAN, JR.
Valuation Engineer (Mining)

(NAME)

(TITLE)

MINERAL APPRAISAL REPORT
TRACT NO. M-3-F
WILLIAMS BOMBING and GUNNERY RANGE

Yuma County

State of Arizona

INTRODUCTION:

The purpose of this report is to estimate the fair annual easement rental for Tract No. M-3-F situated within the exterior limits of the extended area of the Williams Bombing and Gunnery Range, Arizona. Tract No. M-3-F is located in Sections 20 and 21, Township 10 South, Range 20 West, Gila and Salt River Meridian, Fortuna Mining District, Yuma County, Arizona.

PERTINENT INFORMATION:

Examination of subject area was made on 30 August, 5 September, and 6 September 1952, by Mining Engineers John E. Moon, Jr. and Wm. S. Eddelman, Jr.

Tract No. M-3-F is composed of five patented lode mining claims known as CHRISTMAS GIFT, HALF MOON, LA FORTUNA, ARIZONA, and OREGON. These claims, encompassing 96.108 acres, were surveyed under Survey No. 2092, and patented on 4 May 1907 by La Fortuna Mining Company. Present owner of Tract No. M-3-F is Guido E. Caglieri, Jr., 2620 Larkin Street, San Francisco, California, who acquired the property "under and by virtue of Sheriff's Deed dated - January 1946, recorded 16 January 1946 in Book 103 Deeds, Page 1, Records of Yuma County, Arizona."

The subject claims represent the heart of the Fortuna Mining District from which an estimated 183,000 tons of ore valued at \$2,883,000.00 (Avg. value @ \$20.67 oz. is \$15.94 per ton) were extracted. In the development of this ore, and the unsuccessful search for additional ore that followed 15,000 to 20,000 feet of horizontal development work together with 2,000 feet of vertical development work were accomplished. An addition to this extensive development, 22 diamond drill holes - comprising several thousand feet of exploratory drilling - were undertaken.

A grab sample taken on the Arizona claim at the "Mineral Hill" location where tungsten ore was supposedly showing gave no commercial results when assayed by Smith-Emerly Company, Los Angeles, California.

The reported results are as follows:

Mineral Hill - 0.04 oz. Au; Nil Ag; Nil WO₃

An examination of the old tailings scattered over the relatively flat area South and West of the old, caved, inclined shaft revealed a sizeable tonnage (estimated by Harry Murray to contain 84,000 tons) of tailings mixed with detrital material, and in places partially over grown by brush. Four samples of these tailings (taken by Harry Murray or his assistant) averaged 0.02% WO_3 which is four tenths of a pound per ton. Without resampling these tailings, the undersigned is willing to accept the results mentioned.

Copies of geologic and mining reports made by C. F. Tolman, Jr. and W. B. Maitland were studied in detail to determine the future possibilities of this property. W. B. Maitland was the last operator of the mine. Upon completion of the mining of old pillars and remnants of ore, he was unable to continue operating at a profit, and finally closed the mine.

Principal metals are gold and silver.

MINING EQUIPMENT and SURFACE IMPROVEMENTS:

None.

MINERAL ESTIMATE:

No ore reserves exist within the property. The old tailings mentioned above do not contain sufficient value to be workable. No commercial tungsten ore was found on the property.

CONCLUSION:

The mining claims comprising Tract No. M-3-F are patented and have had sufficient work done upon them to qualify for the minimum allowable for patented claims.

No ore reserves remain in the mine. Extensive development work was disappointing, and the possibility of developing additional ore bodies is very remote.

RECOMMENDATIONS:

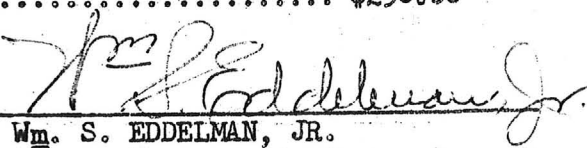
The estimated fair annual easement rental for the use of this property is recommended to be as follows:

Surface and subsurface Rights

1. CHRISTMAS GIFT Claim.....	\$ 50.00
2. HALFMOON Claim	50.00
3. LA FORTUNA	50.00
4. ARIZONA Claim	50.00
5. OREGON Claim	50.00
Improvements (none)	NIL
Ore Reserves (none)	NIL
TOTAL	\$250.00

Total Annual Easement Rental \$250.00

DATE: 17 NOVEMBER 1952


Wm. S. EDELMAN, JR.
Valuation Engineer (Mining)

Included 10/28/80
mfw

ARIZONA DEPARTMENT OF MINER RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Richard J. Grondona
Address: 3620 North 6th Avenue, Phoenix, Arizona 85013 Phone: (602) 266-8190
2. Mine: ✓ FORTUNA 3. No. of Claims - Patented 7 (?)
also known as: LA FORTUNA Unpatented _____
4. Location: _____
5. Sec 29, 30 Tp 10S Range 20 W 6. Mining District Fortuna (Yuma County)
7. Owner: Richard J. Grondona, Guido E. Caglieri Jr., et al
8. Address: _____
9. Operating Co.: None
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Gold 14. No. Employed: _____
15. Mill, Type & Capacity: None
16. Present Operations: (a) Down ☒ (b) Assessment work ☐ (c) Exploration ☐
(d) Production ☐ (e) Rate _____ tpd.
17. New Work Planned: Evaluation
18. Misc. Notes: Property is located on the Luke Air Force Range.
The area is a bombing and air-to-air gunnery range
and access is very restricted. The owners have
permission for access when the range is not in use.

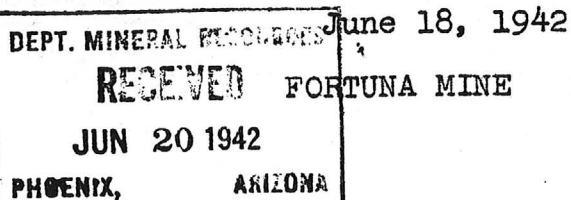
Date: October 23, 1980

Ken A. Phillips
(Signature)

Ken A. Phillips
(Field Engineer) KAP:mw

SURVEY OF OPERATING MINES

By: Elgin B. Holt



FORTUNA MINE, leased to:

Burton Bros.,

Rosamond, Kern County, Calif.

Wm. B. Maitland, Supt, and part owner,
Yuma, Ariz.

This company has been operating the Fortuna mine, located 26 miles S. E. of Yuma, for two or three years, ore being milled in a 40-ton amalgamation and cyanidation mill located at Blaisdell, on the R. R., 12½ miles from property.

1941 production: 500 tons, av. \$16.00 gold per ton.

1942 production: none.

WORK NOW UNDER WAY: Mill now closed, but 8 men are employed carrying out exploratory work in mine. Maitland says, however, he expects to close down in a few days for duration, due to the fact men are scarce, wages high and he has no priority rating.

Elgin B. Holt

Elgin B. Holt.

P. O. Box 288,
Kingman, Arizona,
Feb. 20, 1940.

M E M O R A N D U M

To J. S. Coupal, Director.

Reference is made to your memorandum of January 30, 1940, regarding the Inquiry of T. Pilger, 70 Wall Street, N. Y.: "What do you know about and what do you think of the property which the Burton Bros. are operating at Blaisdell, Arizona."

Recently, while I was in Yuma, I secured the following brief information about the operations mentioned above:

During 1938, H. C. & C. F. Burton, Rosamond, California, secured a lease and option on the Fortuna mine, located about 20 miles southeast of Yuma. This property was ~~discovered~~ and worked over 30 years ago and it is reported a bonanza body or vein of ore was taken out, with a gross value of \$7,000,000.

This is the property now being worked by Burton Bros. In 1939 these people erected a 10-stamp mill and cyanidation plant at Blaisdell to treat ore mainly from the Fortuna mine; said mill having a capacity of 45 tons of ore per 24 hours. A part of the gold is also recovered by plate amalgamation. William B. Maitland is General Supt. of the Fortuna mine and H. S. Dahlman, is mill Superintendent. Ore is also purchased and milled from outside properties.

The operation referred to above is well thought of in Yuma; but details concerning the same were not available.

Elgin B. Holt,
Field Engineer,
Department of Mineral Resources.

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suit symbol above or preceding the address

LC494

WESTERN UNION

W. P. MARSHALL, PRESIDENT

1220

SYMBOLS

DL=Day Letter

NL=Night Letter

IT=International Telegram

VLT=Int'l Victory Ltr.

1955 JAN 10 PM 5 30

The filing time shown in the date line on telegrams and cablegrams is in Standard Time.

L LSA314 LONG GOVT DL PD=WUX LOS ANGELES CALIF 10 30 1PMP=

CHARLES H DUNNING MINING ENGINEER, (DO NOT FWD)=

817 W MADISON ST PHOENIX ARIZ=

ACTION CHARLES H DUNNING MINING ENGINEER 817 W MADISON STREET PHOENIX ARIZONA. INFO DISTRICT ENGINEER LOSANGELES DISTRICT CORPS OF ENGINEERS US ARMY 751 SOUTH FIGUEROA STREET LOSANGELES CALIFORNIA. IN REPLY CITE SPNRD-1656. IN ACCORDANCE WITH YOUR REQUEST SUBMISSION OF ORIGINAL AND SEVEN PHOTOSTATIC SIGNED COPIES OF MINERAL APPRAISAL REPORT IS ACCEPTABLE. PLEASE FORWARD REPORT TO LOS ANGELES DISTRICT OFFICE.

GRAF DISTRICT ENGINEER CORPS OF ENGINEERS US ARMY 180 NEW MONTGOMERY STREET SAN FRANCISCO CALIFORNIA 102150Z.

817 W 751 SPNRD-1656 180 102150Z..

NO Am 51132 TO Adm
BY 07 AT 641P TO BE md
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CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

1220

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=Int'l Letter Telegram

VLT=Int'l Victory Ltr.

W. P. MARSHALL, PRESIDENT

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

LC310

1954 DEC 27 PM 2 08

LLLM099 GOVT DL PD=WUX LOS ANGELES CALIF 27 1237PMP=
CHARLES H DUNNING, MINING ENGINEER

17 WEST MADISON ST DO NOT FWD PHOENIX ARIZ=

IN REPLY CITE SPNRD-1467. IN ACCORDANCE WITH YOUR RECENT

TELEPHONIC CONVERSATION AND UNDERSTANDING WITH MR DAVID

JONES OF THIS OFFICE, MR EMMETT M HAMLIN WILL ARRIVE

YUMA AIRPORT ON BONANZA FLIGHT NUMBER 23 AT 7:45 PM,

WEDNESDAY, 5 JANUARY 1955. IT IS UNDERSTOOD YOU WILL

MAKE MOTEL RESERVATION AND MEET HAMLIN AT AIRPORT.

ARRANGEMENTS HAVE BEEN MADE THE COMMANDER, YUMA AFB

FOR JEEP AND DRIVER BEGINNING MORNING OF 6 JANUARY 1955=

GRAF DISTRICT ENGINEER CORPS OF ENGINEERS US ARMY

180 NEW MONTGOMERY STREET SAN FRANCISCO CALIFORNIA

271948Z=

SPNRD-1467 23 7:45 PM 5 1955 AFB 6 1955 180 271948Z=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE