



CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 07/29/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SAINT LOUIS MINE

ALTERNATE NAMES:

MORNING STAR
ISABEL
FORTUNA

PIMA COUNTY MILS NUMBER: 144

LOCATION: TOWNSHIP 19 S RANGE 15 E SECTION 25 QUARTER NE
LATITUDE: N 31DEG 45MIN 30SEC LONGITUDE: W 110DEG 45MIN 45SEC
TOPO MAP NAME: HELVETIA - 7.5 MIN

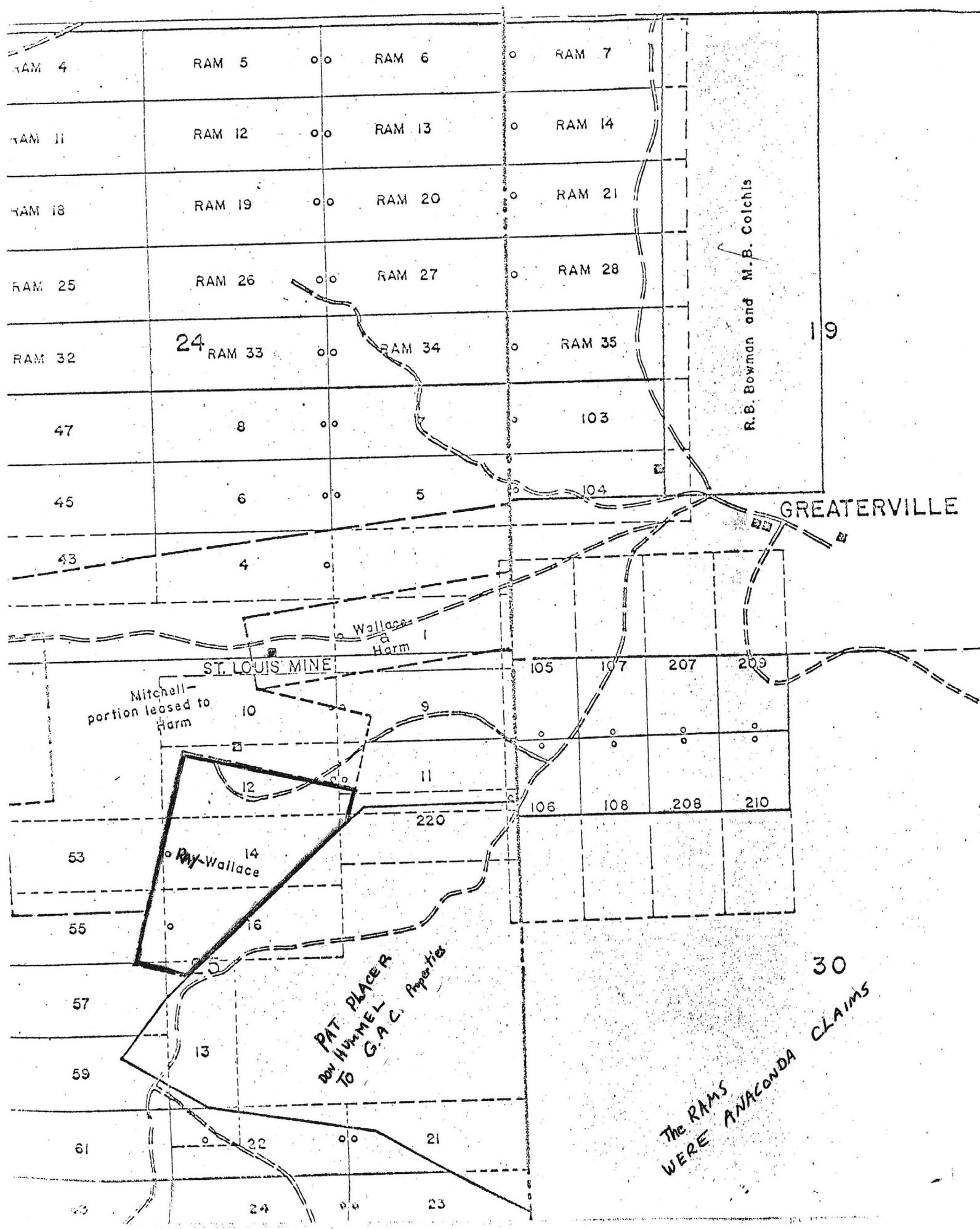
CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD SULFIDE
ZINC SULFIDE
SILVER
GOLD LODE
COPPER

BIBLIOGRAPHY:

AZBM BULL. 189, P. 121, 1974
USGS BULL. 1355, P. 36
USGS BULL. 582, P. 155
ADMMR SAINT LOUIS MINE FILE
USGS BULL. 430, P. 11
AZBM BULL. 160, P. 76



JRCES

Handwritten signature

Handwritten note in a circle: "Box 83"

RECEIVED
JUL 21 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

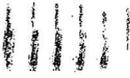
Mr. Robert Bushnell

Box 83

Tucson, Arizona

PHOENIX, ARIZ.
JUL 16
7-PM
79 58

RETURNED
TO
WRITER



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

July 16, 1958

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

ST. LOUIS MINE (Pima County) copper, lead, zinc, gold, silver
(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

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

NAME OF MINE: **ST. Louis**

COUNTY: **S. Cruz** ^S
DISTRICT: **Greaterville**
METALS: **Cu, Pb, Zn, Au, Ag**

OPERATOR AND ADDRESS:		MINE STATUS	
DATE:		DATE:	
5/1/44	Chas. W. Gabrielson Box 279, Bisbee	5/1/44	Developing
9/45	Robt. Bushnell, Box 83, Tucson		
12/43	<i>R F C Loon</i> ^{\$ 4500}		
1/44	<i>Unwatering - rewatering</i>		

BUSHNELL, Robert
~~P. O. Box 1742~~ *Box 83*
~~Phoenix, Ariz.~~ *Tucson*

St. Louis mine
10-20-43

See ASBESTOS file - Re buyers of asbestos.
See ST. LOUIS - re gas application
See ST. LOUIS - re employment of Bowen

7-21-45
4-22-46

GABRIELSON, C. ~~A.W.~~ ^{A.W.} Box 701 - Prescott (5-17-55)
~~Box XXXXX~~ ~~P. O. Box 83~~ *Box 279*
~~XXXXXXXXXXXXXX~~ ~~Tucson~~ *Bisbee* 10-31-42

See G file
Re - bulletins on scheelite and manganese

See ST. LOUIS - Re Field Eng. Report 10-20-43

See ST. LOUIS - Re mine loan application 11-6-43

See ST. LOUIS - re gas application 10-18-44
" " " " " 11-22-44
" " " " " 1-25-45

ST. LOUIS MINE

Pb, Zn, Cu

Pima

10 - 6

T 19 S, R 15 E

T M. Martinez. Greaterville ✓

ST. LOUIS MINE

PIMA COUNTY

Ray Wallace reports - St. Louis Mine and Isabel Morning Star - Fred Harm plus brother and 2 others are drifting 100' on the 40' level 5 claims.

Wallace acquired the property from Martinez in 1953 (details not given)

GWI Note 3-16-66

Visited old St. Louis Mine - made a trip through the mine with owner Mr. Harm. One ore specimen for the museum. GWI WR 6-4-66

Mr. Fred Harm had dewatered the 200 ft. level of the Morning Star (St. Louis) mine and it was available for inspection. GWI WR 6-4-66

It was reported that Fred Harm had stopped working at the St. Louis Mine. GWI WR 7-16-66

Ray Wallace called to report that Beaver Exploration had purchased the St. Louis mine in the Greaterville District, no details. GI WR 4-17-74

NJN WR 5/28/82: Claude Vachon, Geologist with URANIA Exploration, Inc., 10488 West Sixth Place, Suite 110, Lakewood, Colorado 80215 visited. He reported that URANIA is leaving the uranium business and getting in gold both lode and placer. He has been evaluating the St. Louis Mine, Pima County. He examined the mine file and also reviewed our cyanide book.

1. Morning Star Mine
2. Pinal County, Arizona
3. Tom D. Calles, Oracle, Arizona
4. W. R. Jones
5. December 10, 1948
6. Lead
7. "The property is not worth any further consideration by the company. A few small pockets of high-grade lead occur on the periphery of a small scheelite-quartz replacement body in limestone."
8. _____

Addendum by G. J. Duff - May 22, 1951: Tom Calles informs me that he has just recently completed a 50-ton gravity mill on this property, has five or six thousand tons of ore broken and expects that his heads will run 2.8 per cent WO_3 .

ISABEL MORNING STAR GROUP

PIMA COUNTY

Ray Wallace reports - St. Louis mine and Isabel Morning Star Group - Fred Harm plus brother and 2 others are drifting 100' on the 40' level - 5 claims. Wallace acquired the property from Martinez in 1953. Details not given. GWI Note 3-16-66

Field interview with Lloyd Harm, brother of Fred Harm, operator of Morning Star mine in Greaterville, saw samples of lead and gold ore. GWI WR 4-16-66

Mr. Fred Harm had dewatered the 200 foot level of the Morning Star (St. Louis) mine and it was available for inspection. GWI WR 6-11-66

St. Louis Mine (file) Pima Co.

WR GI 8-9-77 - Arthur Zappia 622-8958 reports that there is hi-grade scheelite in the Morning Star & Maudina Shafts in the Oracle Districts. He worked for Mr. Lieberman in both properties. 9-12-77 bh



SAINT MINE (A) PIMA

K C

STATE MINE INSPECTOR

Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

AUG 6 1987

74019140

TAYLOR

State Number

10144900

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start/stop (please circle one) a mining operation.

COMPANY NAME Gray Beard Mining

CHIEF OFFICER Harold Keith

COMPANY ADDRESS P.O. Box 604 Sonoita, AZ 85637

COMPANY TELEPHONE NUMBER _____

MINE OR PLANT NAME Home stead

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

T19S-R15E. Section 24 Greaterville Mining District

1 1/2 miles west of Greaterville. Pima County.

Nearest town is Sonoita 13 miles to the South East

TYPE OF OPERATION Placer PRINCIPAL PRODUCT Gold

STARTING DATE Aug 10th 1987 CLOSING DATE Two, Four Years

DURATION OF OPERATION Two, Four Year's

PERSON SENDING THIS NOTICE Harold Keith

TITLE OF PERSON SENDING THIS NOTICE Owner

DATE NOTICE SENT TO STATE MINE INSPECTOR Aug 5th 1987

PLEASE NOTE: Any operation found operating, without having sent this notice to the Arizona State Mine Inspector, will be charged with a petty offense.

Sena



GREATER UICEL PAPER 1,
ARIZONA MINE I,
4-2-84

Office of State Mine Inspector

705 West Wing, Capitol Building
Phoenix, Arizona 85007
602-255-5971

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303*, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start stop (please circle one) a mining operation.

COMPANY NAME Morningstar Mine

CHIEF OFFICER Ernest H. Bass

COMPANY ADDRESS Graniteville Area

COMPANY TELEPHONE NUMBER no

MINE OR PLANT NAME Morningstar mine

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

Bar No 203 Sanitago 85637

TYPE OF OPERATION Placer PRINCIPAL PRODUCT Gold

STARTING DATE _____ CLOSING DATE Jan 1, 1984

DURATION OF OPERATION _____

PERSON SENDING THIS NOTICE Ernest H. Bass

TITLE OF PERSON SENDING THIS NOTICE Ernest H. Bass Owner

DATE NOTICE SENT TO STATE MINE INSPECTOR 3-27-84

*A.R.S. Section 27-305 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

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

1. Information from: Mr. Ernest Ross
Address: P.O. Box 203, Sonoita, AZ 85637
2. Mine: MORNING STAR (St. Louis) 3. No. of Claims - Patented _____
(Pima Co.) Unpatented 5
4. Location: Approx. 0.7 mile on Melendrez Pass road west of turnoff to Greaterville
(see Helvetia 7½' Quadrangle)
5. Sec SE¼ 24 Tp 19S Range 15E 6. Mining District Greaterville
7. Owner: Ernest Ross
8. Address: as above
9. Operating Co.: Morning Star Mining Co.
10. Address: as above
11. President: Ernest Ross 12. Gen. Mgr.: _____
13. Principal Metals: Au 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: Ross has leased out some of the property for placering. He
has experimented with various gold recovery systems for the past 2-3 years.
18. Misc. Notes: Mr. Ross purchased the Barbara placer, Last Chance lode and the
Lucky Ledge, Apex, & Apex No. 2 lode claims from Mr. Fred Harm. The Barbara
placer coincides with the original Barbara lode which was staked to include the
old St. Louis mine. An adjacent property known as the Morning Star group has
been sold by Mr. Austin Mitchell to a Mr. Lee Cox of Phoenix, phone 966-8768.
Mr. Cox says his Morning Star group also includes the old St. Louis mine, with
its hoist, hoist house, declined shaft, etc. Ross and Cox disagree about owner-
ship of the St. Louis.

Date: August 23, 1983

(Signature)

Michael W. Greeley
(Field Engineer)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Morning Star (St. Louis)
District Greaterville - Pima County
Subject: Mine visit.

Date May 6, 1966
Engineer G. W. Irvin

References: Mineral Deposits of the Santa Rita and Patagonia Mountains by Frank C. Schrader and James M. Hill. Page 155

Location: Sec. 25, T19S, R15E. Elevation approximately 5500' (truck altimeter)
On Melendrez Pass road about a mile west of Greaterville.

Number of Claims: 10 claims. The one on which the mine is located is being carried to patent according to Mr. Fred Harm, the owner.

Principal Minerals: Galena, sphalerite, some copper sulfides, some free gold.
The galena appears to be argentiferous.

Present Mining Activity: Owner has 3 employees. One car has been shipped to El Paso, AS&R. More is being mined.

Mine Workings: The main shaft dips about 38° to the east and bottoms at 250' down the incline. From the 100' and 200' levels, drifts have been driven southerly along the vein for about 125'. A drift has been driven on the 250' level, but has been under water for many years.

Mr. Fred Harm, 820 E. 36th St., Tucson, is operating the property but would sell. No price was quoted, but he stated that the price and terms would be reasonable.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Isabel Morning Star Group Date Feb. 13, 1963
District Greaterville District, Pima Co. Engineer Axel L. Johnson
Subject: Field Engineers Report. Information from George Kaske. No visit.

References See Schraders Report-- Bull. # 582, pages 155 & 156 on "St. Louis Mine", et. al. in the vicinity.

Location About 3/4 mile WSW of Greaterville, in Hughes Gulch.

Number of Claims 7 unpatented claims. Mr. Kaske purchased 1/2 interest in Dec. 1952, and then located full interest in the claims in 1956.

Owner George Kaske, Box 36, Cochise, Ariz.

Principal Minerals Lead, Zinc, Copper, Silver, Gold

Present Mining Activity Dewatering the 225 ft. inclined shaft. Part time work. This is the St. Louis shaft.

Geology Ore is found in a quartz vein in limestone. This vein varies in width from 6 inches to 4 ft. Ore is all sulfides of copper, iron, lead, and zinc.

Ore Values Mr. Kaske reports that a sample taken in the shaft, at a depth of 195 ft, below the collar, ran Lead -- 12 %; Zinc -- 19 %; Copper -- 1.5 %; Silver -- 5 Oz.: Gold -- 0.4 oz.

Milling & Marketing No mill now on property. Mr. Kaske has plans for the construction of a small mill using flotation. However, he would be interested in shipping the ore to the Peru Mining Co. mill at Deming, if they are in operation when he is ready to make ore shipments. Mr. Kaske reports that he has about 5 railroad cars of milling grade ore, running about \$ 25 per ton in values, in a dump on the surface.

Past History and Production

- (1) St. Louis shaft was sunk in 1884 to a depth of 75 ft.
- (2) St. Louis shaft was extended in 1918 to a depth of 225 ft.
- (3) Sorted ore was shipped by John Anderson, which ran about \$ 800 per ton in gold, silver, and lead--- about 1900 to 1910.

Old Mine Workings

- (1) 1 inclined shaft (incl. 35 deg. to E)-- 225 ft. deep, the St. Louis shaft. This shaft was sunk, following the dip of the vein.
- (2) Considerable underground workings on the 200 ft. level.

Review of Recent Operations Mr. Kaske reports starting to dewater the St. Louis shaft about 3 months ago. He states that the shaft is now dewatered to a depth of 180 ft. Mr. Kaske has a hoist and an air compressor at the mine.

Proposed Plans Mr. Kaske plans to dewater the shaft below the 200 ft. level, and then sample and explore the old workings on the 200 ft. level of the mine.

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



March 29, 1950

Mr. E. D. Morrison
P. O. Box 1049
Beverly Hills, California

Dear Mr. Morrison:

In answer to your letter of March 25th regarding
the St. Louis Mine, we have no information on this property
in our files of recent date. I have just checked with the
Corporation Commission and they state that no fees have been
paid since 1945. I also talked with Mr. W. C. Fields who
represented this concern in a legal matter in 1947 and he
states that in his opinion the company is defunct.

Yours very truly,

R. I. C. Manning
Field Engineer

RICM:mh



LOS ANGELES ATHLETIC CLUB

Mar. 25th 1950

Chas H. Dunning, Director
Dept of Mines,
Phoenix, Ariz.

Dear Sir: The Mining dept of the Los Angeles Chamber of Commerce referred me to your office for information regarding the St. Louis Mine Inc. It was formerly known as Liberty Silver Mine (or something like that) & their main office was in Phoenix. Their mine was at Greaterville or near there.

However, the last information I had on the Co was their address - "Care Robert Bushnell
P.O. Box 83 Tucson, Ariz, At that time, Nov 5
in 1946, G. H. Kaste was listed as president
years ago, & manager.

Any information you can furnish me
will be gratefully received -
Thanking you in anticipation, I am

My address

Very truly yours

E D Morrison

Tover

P. Many years ago I met Mr. Dunning in
Nescott. His office, if I recall correctly,
was in the Baskford bldg. A. B. Leach had an
office in the same building. I was interested
at Crown King with the Gemmill Bros^{es}
Dana Burks. E.D.M.

St. Louis

April 22, 1946

Mr. Robert Bushnell
Box 83
Tucson, Arizona

Dear Mr. Bushnell:

After our talk the other day I ran into an old friend by the name of Arthur Bowen who I think would be just the man you need for the work you mentioned.

Bowen is between 55 and 60 years old. He is not an engineer but has had a life time of experience in handling small mines. I have personally operated with him, and know that he is especially competent as an ore sampler.

He is available and I think you could get him for about \$250.00.

His address at present is 1523 East Sheridan, Phoenix. Phone: 9-1221. He said he expected to leave there and go to Prescott soon.

Hoping this may work out for your mutual advantage.

Yours very truly,

Chas. H. Dunning
Director

CHD:LP

6/1945

REPORT ON THE ST. LOUIS MINE
GREATERVILLE, PIMA COUNTY, ARIZONA

Resumé. The St. Louis Mine appears to be a good prospect having gold, silver, copper, lead and zinc values. Very little work has been done to date in drifting and raising on the veins exposed. Further underground work should be prosecuted in an attempt to develop the prospect into a mine. The venture should be classified as speculative.

Location. The St. Louis Mine is located in the Greaterville district in Pima County, Arizona. It is about 45 miles by road southeast of Tucson.

Geology. The rock in which the prospect is sunk is a hard, tough limestone somewhat metamorphosed into a marble by the intrusion of an alaskite (granite) mountain very close by. The main vein is a bedding plane in this limestone slanting into the rock at an angle of about 39° . Of course the limestone is a series of these slanting bedding planes, one after the other. All of this limestone carries a great deal of iron and sulphur in chemical combination (pyrite). This pyritization is also probably due to the proximity of the aforesaid granite mountain.

In places along the bedding planes of this limestone, the prospectors of previous decades have found streaks of lead sulphide, zinc sulphide, copper iron sulphide and some silver and gold. At the place where some bygone day prospector found such mineralization, he sank an inclined shaft, following the ore. This shaft in which underground workings are now being made, shows a bedding plane about four feet wide with a six inch quartz vein contained therein. It is in this quartz vein that the lead, silver, copper, zinc and gold occur. The above metals have been mined in a small way at various times, and the picked and cobbled ore shipped to a smelter.

It is interesting to know that all of the gulches around the St. Louis Mine have been placered for gold and there are probably many millions of dollars of gold still in the gulches. Some of these gulches are within the property under option by the men currently working the St. Louis, Greaterville has been noted for its gold placers in the past.

THE WORKINGS. The incline shaft is about 250' deep on a 38° angle from the horizontal. About 50' down this shaft is a stope in a man made cave along the vein and there is a six inch to one foot streak of quartz in this stope. The stope is about thirty feet long and of this 30' there is about 12' of ore that might be shipped at a profit. It is rather close to the surface to make much tonnage. Probably a car load of ore could be mined from what ore the old timers left in the stopes.

One hundred feet down the shaft from the surface, the present owner at the St. Louis shipped a carload or two during World War 1. There is not much ore left in this stope. The vein is about four feet wide and the streak of ore within the vein from four inches to one foot wide.

SAMPLE # 3

A sample from the ore left in this stope gave:

	<u>Price</u>	<u>Amount</u>	<u>Value per ton</u>
Gold	\$ 35.00	0.42 oz	\$ 14.70
Silver	.71 ¢	5.00 oz	3.55
Copper	11.7 ¢	1.31 %	2.93
Lead	6.25 ¢	8.38 %	10.43
Zinc	8.25 ¢	19.48 %	32.10
<u>Total Value</u>			\$ 63.71

There has been no drifting on the vein at the 100' level, and only about fifty feet on the 50' level.

The present operators of the St. Louis Mine have rightfully confined their work to the 250' level. A picture of this level is appended. The drift cuts the vein which made the ore in the above said stope at a distance of 80' from the shaft. There is a four inch streak of copper, lead, zinc ore at this point. The drift passes through the ore.

About 100' from the shaft a cross-cut going northwest for about fifty feet cuts a north and south vein. This vein is about two feet wide with a six inch pay streak. It is a favorable prospect because it cuts across the bedding planes of the limestone because of which it might continue with more strength than a bedding plane deposit would have. Also a vein cutting across the bedding planes gives more surface to chemically active agents which dissolve the limestone and replace it with economically valuable metals.

The Workings, continued.

A six inch sample at this place, and the best showing assays:

SAMPLE # 2

	<u>Price</u>	<u>Amount</u>	<u>Value per ton.</u>
Gold	\$35.00	0.01 oz.	\$ -----
Silver	.71 ¢	1.80 oz	1.27
Copper	11.7 ¢	1.05 %	2.35
Lead	6.25 ¢	0.42 %	-----
Zinc	8.25 ¢	10.9 %	18.00
Total value per ton			\$ 21.62

The face or end of the drift on the 250' level is 175' from the shaft. As the drawing shows the drift has been turned to cross cut the vein. The drift has eight or ten feet to go before cutting this vein.

As the drawing shows there is an 8" stringer near the face from which sample No. 1 was taken. The sample represents only a 4" stringer. It is not a true sample but was taken to see what grade of shipping ore might be made. It assays:

SAMPLE #1

	<u>Price</u>	<u>Amount</u>	<u>Value per ton</u>
Gold	\$35.00	Trace	\$ -----
Silver	.71 ¢	2.7 oz	1.91
Copper	11.7 ¢	0.85 %	1.90
Lead	6.25 ¢	0.42 %	-----
Zinc	8.25 ¢	9.35 %	15.40
Total value per ton			\$19.21

The work on the 250' level has cut three stringers, all containing ore, although not of commercial quantity. No drilling has been done on these veins.

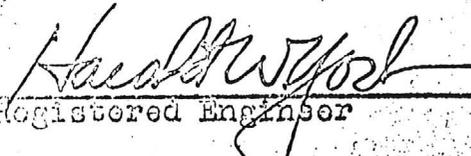
The ore is in quartz veins in limestone. It is the characteristic of mines in limestone to run into replacement deposits of commercial ore. There is a chance that this can happen in this prospect. The veins should be followed, in the hope that at some place along the veins a soft place will come where the limestone has not been marbelized to the extent which it has. The appended drawing shows one idea of how additional work should be done. I believe some commercial ore bodies will be found just by following these veins. They are tight but have a good chance in opening up.

The Workings, continued.

The St. Louis Mine is a good prospect because:

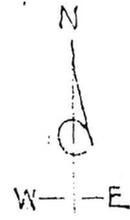
- (1) It is in limestone.
- (2) There is an igneous mountain close by.
- (3) There has been ore shipped out.
- (4) It is in a great gold placer country.
- (5) The new work has shown ore.

Because of the above considerations, I feel that the St. Louis has a very good chance in making a mine.

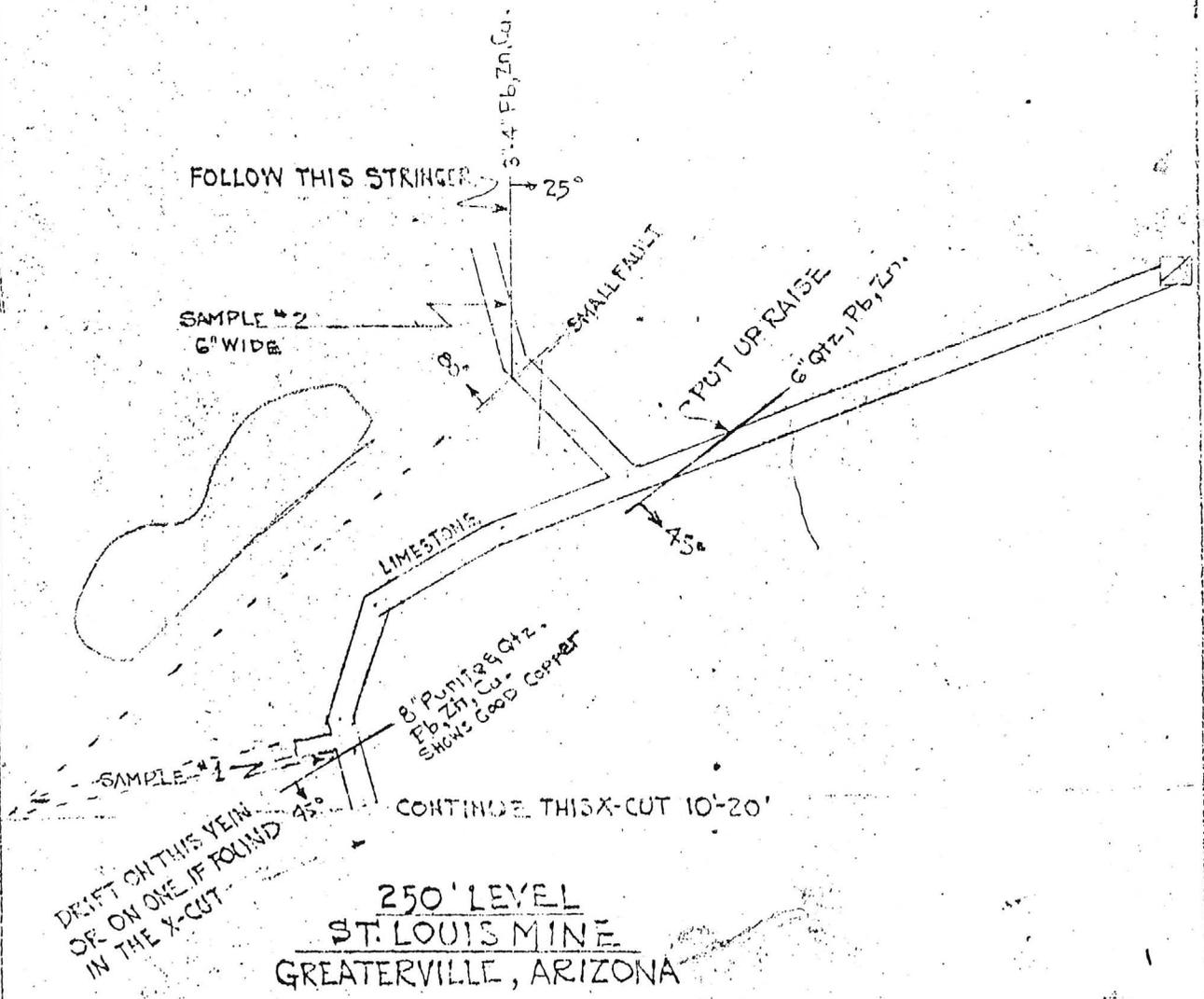

Registered Engineer

June 27, 1945

GRANITE MT. ABOUT
1000' TO N.W.



SCALE 1"=30'



H.W. YOST
YOST AND GARDNER ENGINEERS
511 HEARD BLDG. - PHOENIX, ARIZONA
6-21-95

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date: 7/21/45
Name of Mine: St. Louis
Owner or Operator: R. H. Bushnell
Address: Box 83, Mesquite
Mine Location: Greaterville

Filing Information

File System
File No.
This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production; Development; Financing; Sale of mine;
Experimental (sampling); Owner's occasional trip;
Other (specify)

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months
Approx. present rate per 3 months
Anticipated rate next 3 months
If in distant future check (X) here

EQUIPMENT OPERATED:

Table with 4 columns: Type, Quantity or Horse Power, Miles or Hours Per Month, Gallons Required Per Month. Includes handwritten entry for 1938 Lincoln car with 400 miles per month.

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

REMARKS:

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By

George A. Ballou

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date 2/14/45
 Name of Mine St Louis
 Owner or Operator C. W. Robinson
 Address 134 279 Ave
 Mine Location Greenville

Filing Information

File System.....
 File No.....
 This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production.....; Development ; Financing.....; Sale of mine.....;
 Experimental (sampling).....; Owner's occasional trip.....;
 Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months
 Approx. present rate per 3 months
 Anticipated rate next 3 months
 If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars
Light or Service Trucks	1800	.....
Ore Hauling Trucks	1800	.....
Compressors
Other Mine or Mill Eqpt.

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Lead zinc copper

REMARKS:

This property will be used for production of lead zinc and copper for about 3 months after the start of the year.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By [Signature]

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Filing Information

Date..... January 25th 1945
 Name of Mine..... St. Louis
 Owner or Operator..... A. W. Gabrielson
 Address..... Box 279 Bisbee, Ariz.
 Mine Location..... Greenterville Ariz. (Pima County)

File System.....
 File No.....
 This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production.....; Development; Financing.....; Sale of mine.....;
 Experimental (sampling).....; Owner's occasional trip.....;
 Other (specify).....

Transfer file to Tucson

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months
 Approx. present rate per 3 months
 Anticipated rate next 3 months 50 tons daily
 If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	.....	.....	.....
Light or Service Trucks	.....	.....	.....
Ore Hauling Trucks	.....	.....	.....
Compressors	<u>two</u>	<u>160</u>	<u>840</u>
Other Mine or Mill Eqpt.	<u>Hoist and also power plant engine</u>		<u>300</u>

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Pb. Zn, Cu. Ag Au.

REMARKS:

This is a shaft mine and water has to be pumped to surface from 250 ft level. Up to 16 hours a day pumping has been required at times - and the mine has to be kept unwatered every day.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By..... *[Signature]*

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date 11-22-44
 Name of Mine St Louis
 Owner or Operator CW Gabrielson
 Address Box 279 Bisbee
 Mine Location 3/4 mi South Greaterville Pima Co

Filing Information

File System.....
 File No.....
 This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production.....; Development ; Financing.....; Sale of mine.....;
 Experimental (sampling).....; Owner's occasional trip.....;
 Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months
 Approx. present rate per 3 months
 Anticipated rate next 3 months 50 tons per day
 If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	.....	.....	.....
Light or Service Trucks	.....	.....	.....
Ore Hauling Trucks	.....	.....	.....
Compressors	<u>2-6000 120hp</u>	.....	<u>300</u>
<u>Hoist</u>	<u>25 hp</u>	.....	<u>100</u>
Other Mine or Mill Eqpt.	<u>FM 15hp</u>	.....	<u>80</u>
<u>Generator</u>	.....	.....	<u>480</u>

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

REMARKS:

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By [Signature]

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date..... 10-18-44
 Name of Mine..... St Louis
 Owner or Operator..... C. Gabrielsen et al
 Address..... PO Box 83 Tucson
 Mine Location..... Crookville

Filing Information

File System.....

File No.....

This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production.....; Development.....; Financing.....; Sale of mine.....;

Experimental (sampling).....; Owner's occasional trip.....;

Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months

Approx. present rate per 3 months

Anticipated rate next 3 months

If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	<u>35</u>	<u>850</u>	.....
Light or Service Trucks
Ore Hauling Trucks
Compressors
Other Mine or Mill Eqpt.

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

..... Copper-lead-zinc

REMARKS:

Mr. Bushnell is taking care of the mechanical equipment of this project and will make about two trips per week.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By..... [Signature]

St. Louis

February 21, 1944

Mr. Robert Bushnell

64 West Willetta

Phoenix, Arizona

Dear Mr. Bushnell:

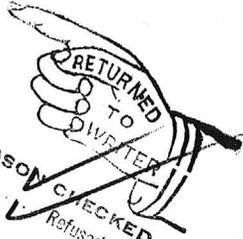
A William Blair Baggaley, mining engineer,
is looking for a mine for his people. You can phone
him at 5-1865, Phoenix.

Very truly yours,

J. S. Coupal
Director

JSC:JES

ES



REASON CHECKED

Unclaimed Refused

Unknown

Insufficient address

Moved, Left no address

No such office in state

Do not remain in this envelope

Not

Mr. Chas. W. Gabrielson
 Box 279
 Bisbee, Arizona

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

July 21, 1958

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

St. Louis Mine (Pima County) copper, lead, zinc, gold, silver
(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

FRANK P. KNIGHT,
Director.

Enc: Mine Owner's Report

St. Louis

February 21, 1944

Mr. Robert Bushnell

64 West Willetta

Phoenix, Arizona

Dear Mr. Bushnell:

A William Blair Baggaley, mining engineer,
is looking for a mine for his people. You can phone
him at 5-1865, Phoenix.

Very truly yours,

J. S. Coupal
Director

JSC:JES

February 15, 1944

File NDD

War Price and Rationing Board
No. 81.7.1
137 North Second Avenue
Phoenix, Arizona

Gentlemen:

Mr. Robert Bushnell, 64 West Willetta, has made application for gasoline for his work in connection with the St. Louis Mine located in the Greaterville district about 50 miles south and east of Tucson. His application for 2500 miles per month was rejected.

I have talked over the entire situation with Mr. Bushnell and by curtailing certain of his work we find that a minimum which he can get by with and accomplish the purpose of getting the mine into larger production will be 900 miles per month.

I can certify to this need and hope that you will be able to grant him this amount of gasoline.

Yours very truly,

J. S. Coupal, Director

JSC:LP

February 7, 1944

Office of Price Administration
War Price and Rationing Board 81.7.1
Ellis Building
Phoenix, Arizona

Gentlemen:

Mr. Robert Bushnell, P. O. Box 1742, 64 Willetta Street, Phoenix, Arizona, has made application for gas for 2500 miles per month.

Mr. Bushnell is one of the owners of the St. Louis Mine located at Greaterville, Arizona and the mine is producing a lead-silver ore which is one of the critical minerals, lead having recently been placed in Group 2 of the critical minerals by the War Production Board. The property is now in production and it calls for a trip each week and possibly other business trips in connection with the mine.

I can gladly certify to the need of of this supplementary gasoline.

Very truly yours,

J. S. Coupal
Director

JSC:JES

September 30, 1943

Mr. C. W. Gabrielson
Box 279
Bisbee, Arizona

Dear Mr. Gabrielson:

Many thanks for your letter of September 25 on the manpower situation. It is this type of information we are anxious to have on hand so as to combat the tendency in Washington to absorb our small mine labor.

I also have a copy of your letter of September 26 to Mr. C. F. Willis and his reply of September 29 regarding the St. Louis property.

Mr. Macfarlane has his hands full covering the large area assigned to him. The St. Louis property naturally falls into the area assigned to George Ballam. I will see Ballam early next week and will figure with him and advise you at what time he could arrange to examine the St. Louis and assist in advising you regarding the preparation for a mine loan application.

I believe the most convenient dates for such an examination by Ballam would be on the 18th or 19th or both dates of October. I will advise you later regarding this.

Yours very truly,

J. S. Coupal
Director

JSC:JE

Sam

September 29, 1943

Mr. C. W. Gabrielson
Box 279
Bisbee, Arizona

Dear Mr. Gabrielson:

I have your letter of the 26th relative to getting Mr. Macfarlane lined up to help you prepare the data for an RFC loan on the former St. Louis property.

I am passing this along to Sam Coupal as he is the one who directs the activities of Mr. Macfarlane and knows where he is scheduled to go and how his time is tied up. He also would know whether Mr. Ballam would be more available than Mr. Macfarlane. Mr. Coupal will write you relative to this.

I do not like to interfere with the engineers' schedules because you can appreciate it would be easy to get the wires crossed and give out promises that they would be in too many places at one time.

Wishing you all success in getting this property under way and with kindest personal regards, I am

Yours very truly,

CHARLES F. WILLIS, Chairman
Board of Governors

CFW:MH

Box 279
Bisbee, Arizona.
September 26th, 1943.

Mr. Chas, F. Willis,
Phoenix, Arizona.

Dear Mr. Willis;

At the last meeting of the A.S.M.O.A. here in Phoenix, the Regional engineer, Mr. McFarlane, attended, and I met him for the first time. He "knows his stuff" and is a valuable asset to the A.S.M.O.A. in that he is very helpful, and tactful with it.

At the time I was awaiting word re a property at Greaterville on which I expected an Option. Since the meeting in question I have received the agreement on the property and can now go ahead with arrangements to put same into production.

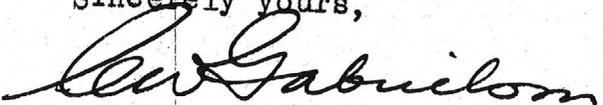
This is the former "St Louis" property, $\frac{3}{4}$ of a mile from Greaterville, a lead-zinc-copper carrying silver and gold, which has had considerable production, and is one of the older properties of the State. It is fairly well developed with an inclined shaft 260 ft deep, with levels at 75, 200, and 250, now under water to within 60 ft of the surface.

There is considerable ore on the dumps, and surface indications are so strong that they can truly be called tremendous. In Bulletin 582 U.S.G.S. Schrader says there is a mine-sized zone 800 ft wide and 3,000 ft long, which speaks for itself.

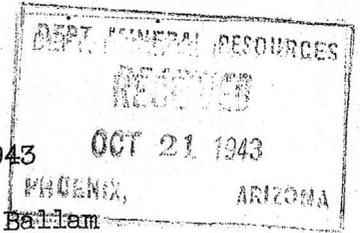
McFarlane knows this property, and volunteered to help me get an R.F.C. Loan on it to get it properly started on production if you can get him a couple of days to go over the property with me. And now that I have the Option, I would appreciate it, if you can conveniently arrange to do so, have McFarlane (or George Ballam if you prefer) go over this property with me so we can see what can be done about getting an R.F.C. Loan for enough money to really make another big mine in Arizona, as this has all the "earmarks" of a big producer. With the Eagle Pitcher mill at Sahuarita only 20 miles away, and the Parker Dam - Ft Huachuca power line now within $1\frac{1}{2}$ miles of the property, it is right in line to make good, after all these years.

With very best personal regards, and thanking you in anticipation, I am,

Sincerely yours,


C.W. Gabrielson.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine St. Louis

Date Oct. 20, 1943

District Greaterville

Engineer George A. Ballam

Subject: Mine examination

(Approx S-25, T. 19S, R. 15E)

The St. Louis property, situated three-quarters of a mile southwest of the Greaterville post office, consists of four unpatented claims, Ysabel, Fortuna, Rainbow and Granite. The owner, J. M. Martinez of Greaterville, has optioned the property to C. A. Gabrielson, Box 279, Bisbee, and the latter is preparing to unwater and rehabilitate the mine.

This property was developed in 1874 by a 75-foot shaft with some lateral work. From time to time high-grade gold-silver ore was shipped which showed high percentages of lead and zinc. During World War I, Mr. Martinez sank the shaft to the 250-foot level and cross-cut the mineralized zone 100 feet. Since that time he has lived on the property, making shipments of high-grade ore from time to time.

There is a series of limestone beds of uncertain age, tilted by granitic intrusion, and highly mineralized and altered. Schroeder, in Bull. 582, U.S.G.S. estimates the width of the mineralized zone as 800 feet, with a length of 3000 ft. northeasterly. The shaft referred to, inclined on ore at about 38°, follows one of these beds which in general dip to the southeast. The chief minerals are sphalerite, galena with some sulfides of copper and considerable auriferous pyrite. A minor amount of quartz gangue is present.

At a higher horizon in the sedimentaries overlying these beds, numerous parallel quartz veins ~~cross~~ ^{cut} at approximately right angles to the planes. High gold and silver values are associated with galena in these formations.

Water now stands in the shaft at 60 feet. It was possible however, to follow the progress of development from the dump, the various portions of which were were spotted by Martinez, who did most of the work. All of the dump, some 800 tons, is highly mineralized, and about one-half is ore of milling grade, running about 20% lead and zinc with some copper values. The two 50-ft. cross-cuts on the 250-ft. level show ore throughout. A shallow winze in the footing-wall side produced high-grade ore. Here also a heavy flow of water was encountered, estimated at 50 gpm. There are four levels at the 75, 100, 200, and 250-ft. levels, half of the lateral work, some 200 ft., being at the bottom as indicated.

A good road connects with the Continental-Sonoita highway, and it is proposed to haul to the latter place on the railroad, all down grade and some 12 miles distant. Equipment consists of hoist and Sullivan compressor run off engine, well housed. Blacksmith shop. Good camp buildings with bunk-house, dining room, all in good condition. It will require 30 to 45 days to put this property into production on a basis of 20 to 25 tons per day. Ore will be shipped to Shattuck-Denn mill at Bisbee.

GA Ballam

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine St. Louis

Date October 20, 1943

District Greaterville

Engineer George A. Ballam

Subject:

This mine will produce high-grade milling ore at once. While a relatively simple job of unwatering with some retimbering is proceeding, some 300 to 400 tons of excellent mill ore can be shipped from the dump. However, the mine should be opened up since good values in chalcopyrite and bornite are in evidence in the ore taken out of the lower cross-cut.

Gabrielson and Kaskey are applying for \$4,500 accessibility loan. They have ample labor available in Greaterville, some half-dozen Mexicans not now employed, waiting for operations to commence. One of these has worked in the mine before, as also has Martinez.

From numerous settlement sheets for small shipments made during the past twenty years, the ore will run from 30 to 60% zinc and lead, with good copper coming in. Silver values are uniformly high, and two carload shipments showed high gold values.

Whenever I see a definite record of good tonnages of \$80 ore I look for a joker and wonder why it hasn't been grabbed before, I believe the answer is obvious here. The major values are in zinc, so far, and until recently this was out. More recent operation has been held back by an absentee owner who is sick and living in California. Transfer of title with complete ownership has just been made to Martinez. Then there is a bad collar which must be concreted and a pumping problem both of which Gabrielson is prepared to handle. I cannot recommend this thing too highly. No advance premiums will be required.

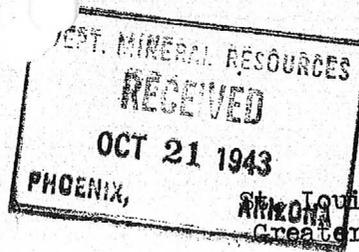
/s/ G. A. Ballam

GAB:JES

October 20, 1943

MEMORANDUM

Confidential



To: Director, Dept. Mineral Resources
From: George A. Ballam

This mine will produce high-grade milling ore at once. While a relatively simple job of unwatering with some retimbering is proceeding, some 300 to 400 tons of excellent mill ore can be shipped from the dump. However, the mine should be opened up since good values in chalcopryrite and bornite are in evidence in the ore taken out of the lower cross-cut.

Gabrielson and Kaskey are applying for \$4500 accessibility loan. They have ample labor available in Greaterville, some half-dozen Mexicans not now employed, waiting for operations to commence. One of these has worked in the mine before, as also has Martinez.

This is one of those lime replacements which I believe is a sure shot to make good, and would bolster a rather bad batting-average on successful accessibility loans.

From numerous settlement sheets for small shipments made during the past twenty years, the ore will run from 30 to 60% zinc and lead, with good copper coming in. Silver values are uniformly high, and two carload shipments showed high gold values.

Whenever I see a definite record of good tonnages of \$80 ore I look for a joker and wonder why it hasn't been grabbed before. I believe the answer is obvious here. The major values are in zinc, so far, and until recently this was out. More recent operation has been held back by an absentee owner who is sick and living in California. Transfer of title with complete ownership has just been made to Martinez. Then there is a bad collar which must be concreted and a pumping problem both of which Gabrielson is prepared to handle. I cannot recommend this thing too highly. No advance premiums will be required.

G. A. Ballam