



CONTACT INFORMATION

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06/13/89

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SHANNON MINE

ALTERNATE NAMES:

LEONARD
PEMBERTHY
CHARLESTON GROUP
COPPER BELLE

COCHISE COUNTY MILS NUMBER: 222

LOCATION: TOWNSHIP 19 S RANGE 25 E SECTION 32 QUARTER SW
LATITUDE: N 31DEG 44MIN 13SEC LONGITUDE: W 109DEG 49MIN 19SEC
TOPO MAP NAME: GLEESON - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER
LEAD
ZINC
SILVER
GOLD LODE
BISMUTH

BIBLIOGRAPHY:

KEITH, S.B., 1973, AZBM BULL. 187, P. 81
USGS PP 318, P. 101 (PEABODY MINE)
AZBM BULL. 123, P. 10
USBM IC 8236, P. 24
ADMMR SHANNON MINE FILE
AZ. MINING JOURNAL APRIL 1919, P. 17
USGS BULL. 530, P. 12
ADMMR MAPS-UPSTAIRS IN DRAWER 2 - Micro Fiche = LEONARD

PAY DIRT for April 22 1974

SHANNON MINE

REFERENCES

COCHISE COUNTY
T19S R25E Sec. 32

ABM Bull. 123 p. 10

USGS P.P. 318 p. 101 (Peabody Mine)

IC: 8236 p. 24

~~ABM # 156 p. 30 (Peabody, Republic, Mammoth)~~

Ariz. Mng. Journal, April, 1919, p. 17

ABM. Bul. 187, p. 81

USGS Bul. 530, p.12

Maps - Upstairs in the flat storage area - Drawer 2 - *under Leonard Mine*

MILS Sheet sequence 0040030591

MAPS - Upstairs in the ABM rolled file boxes - under Courtland-Gleeson Region

How about a combination plan in ...

Stage 1: Government engineers review project and, if a little drilling to be justified and a preliminary key to the situation, such program to be agreed upon by owner and government engineer, by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify under development and/or production equipment, same to be obtain mortgage loan on property.

Please discuss the above: _____

SUGGESTIONS:

Although The Shannon Mine has a known tonnage of 100 000 tons of plus 2% copper ore and an estimated tonnage of 500 000 ton of plus 1% copper it lacks equipment and requires shaft repair

DATE

Aug 5, 1950.

SIGNATURE

R. L. Brown for

Carrie M Brown, owner.

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM 4169 Chrysocolia

COCHISE COUNTY

SHANNON MINE MILS # 222 (F)

4-AKA 2

SHANNON

Cu, Ag

Cochise

2 - 2

T 19 S, R 25 E

R. L. Brown, Box 182, Tombstone

'43

NAME OF MINE: OXIDE SHAFT
(Shannon)

COUNTY: COCHISE

DISTRICT:

METALS: CU, AG, AU

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

DATE:

6/44

Operator: Ronald L. Brown
Box 182, Tombstone, Arizona

6/44

Shipping and developing

NAME OF MINE:

SHANNON
See Oxide Shaft

COUNTY: COCHISE

DISTRICT: Turquoise

METALS: CU, Au, Ag S.

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

~~Box 182~~

DATE:

5/1/44

R.L. Brown, Tombstone

5/1/44

Deal On

1/47

Box 368, Douglas

Shipping

Date:

Name of Mine SHANNON

Location TURQUOISE DIST., COCHISE CO.

Operator R. L. BROWN

Address BOX 368 DOUGLAS ARIZ

Metals Produced COPPER, GOLD AND SILVER

Developing

Shipping

Financing

Planning Operations Soon

Idle

MEMORANDUM

April 22, 1944

To: Bill Broadgate

From: J. S. Coupal

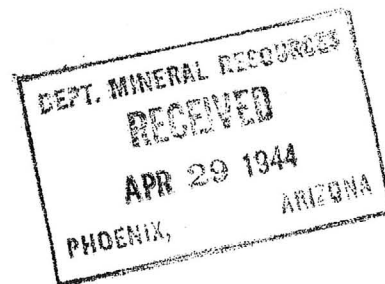
Subject: Shannon Copper
R. L. Brown
Special Premium

I am enclosing a copy of a letter I have just received from R. L. Brown asking for an additional 5% premium on copper from the Shannon Mine, together with an analysis of his costs which seem to justify an increased premium if this additional copper is desired. I note in the letter that he has sent a copy to you of the application that he has written to the Quota Committee, attention, Mr. Strobel.

J. S. Coupal

JSC:JES
enc.

Washington, D.C.
April 26, 1944



SUBJECT: Shannon Mine premium

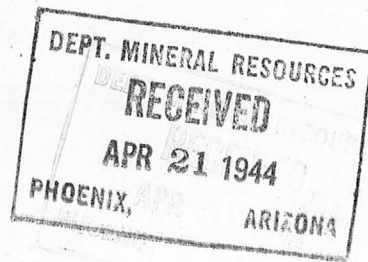
I have been following this closely. I hope that, with the additional data furnished, we can get it through OK.

I asked for special consideration for Brown due to the rotten break he got last year.

Bill Broadgate

Box 182 Tombstone, Ariz.
April 20, 1944

Mr J. S. Coupal, director,
Dept of Mineral Resources
Phoenix, Ariz.



Dear Mr Coupal:

Since writing you concerning the Shannon, I have prepared cost data and relative metal values for the ore as of Nov 15th 1943 and April 15th 1944. A copy has gone forward to Mr Broadgate and Mr Strobel, as I was anxious to receive word as to the probable action of W. P. B.

I am now receiving a 5¢ special premium so another 5¢ would no doubt be the maximum. As a relatively recent operation, it may be that in the future I can somewhat further reduce costs but at the present \$5.00 per ton is as good as I can do for mining and hoisting the ore. As you see all of the other costs are more or less fixed charges. Herewith is the data which I presented to Mr Strobel:

<u>COSTS</u>	<u>NOV 15</u>	<u>APR 15</u>	<u>METAL VALUES</u>	<u>NOV 15</u>	<u>APR 15</u>
EXPLORATION	.17	.17	GOLD	---	1.48
DEVELOPMENT	.55	.55	SILVER	1.73	2.14
MINING	7.50	5.00	COPPER	7.95	3.32
MILLING	.00	.00		9.68	6.94
EQUIPMENT	1.55	.75	PREMIUM	8.73	4.50
TRUCKING	2.00	1.50	TOTAL	18.41	11.44
MOISTURE	1.00	.93			
	12.77	8.90			
FREIGHT + SMELTING	5.10	4.60	(If another 5¢ granted on APR 15th basis)		2.25
TOTAL	17.87	13.50			13.69

I also stated that our average shipments would be from 3 to 4 cars of 55 ton each per month based on an expected production of 1000 ton.

Very truly yours,

R. L. Brown

April 19, 1944

Mr. R. L. Brown
Box 182
Tombstone, Arizona

Dear Mr. Brown:

Many thanks for your check to the Washington fund which I have turned over to Mr. Willis.

I note your difficulties on the Shannon copper with an ore of \$11.44 and costs of \$13.50. Under these conditions it would seem as though you should be granted another 5% if the War Production Board and the Quota Committee want the added copper production.

I would suggest that you file a careful analysis of your costs and your returns from this ore and ask for the additional 5%. I do not know what price you are now getting for your copper and feel as though their decision will rest entirely with their policy regarding trying to get out the additional 10,000 pounds per month.

When you file an analysis properly set up so as to show your costs and your returns and the need for the additional 5%, please send a copy to this office and I will forward it to Broadgate and ask him to follow it through.

Yours very truly,

J. S. Coupal, Director

JSC:LP

Box 182
 Tombstone, Arizona
 April 20, 1944

Mr. J. S. Coupal, Director
 Department of Mineral Resources
 Phoenix, Arizona

Dear Mr. Coupal:

Since writing you concerning the Shannon, I have prepared cost data and relative metal values for the ore as of November 15th 1943 and April 15, 1944. A copy has gone forward to Mr. Broadgate and Mr. Strobel, as I was anxious to receive word as to the probable action of W.P.B.

I am now receiving a 5% special premium so another 5% would no doubt be the maximum. As a relatively recent operation, it may be that in the future I can somewhat further reduce costs but at the present \$5.00 per ton is as good as I can do for mining and hoisting the ore. As you see all of the other costs are more or less fixed charges. Herewith is the data which I presented to Mr. Strobel:

<u>Costs</u>	<u>Nov. 15</u>	<u>Apr. 15</u>	<u>Metal Values</u>	<u>Nov. 15</u>	<u>Apr. 15</u>
Exploration	.17	.17	Gold	-----	1.48
Development	.55	.55	Silver	1.73	2.14
Mining	7.50	5.00	Copper	7.95	3.32
Milling	.00	.00		9.68	6.94
Equipment	1.55	.75	Premium	8.73	4.50
Trucking	2.00	1.50	TOTAL	18.41	11.44
Moisture	1.00	.93			
	12.77	8.90			
Freight & Smelting	5.10	4.60	(If another 5% granted on April 15 basis).....		2.25
TOTAL	17.87	13.50			13.69

I also stated that our average shipments would be from 3 to 4 cars of 55 ton each per month based on expected production of 1000 ton.

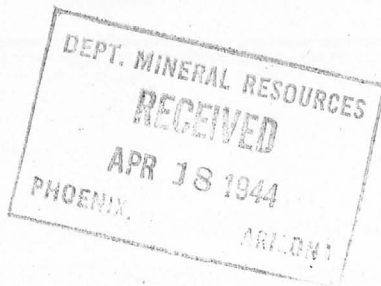
Very truly yours,

/s/ R. L. Brown

Box 182 Tombstone, Ariz.

April 17, 1944.

Mr J. S. Coupal
304 Home Builders Bldg
Phoenix, Ariz.



Dear Mr Coupal:

I have just received a preliminary report on my fourth shipment from the Shannon. It shows my average grade to date is \$11.44 including the premium. This compares with \$18.41 the grade predicted from the R.F.C. samples.

My costs are \$13.50 including freight, treatment and trucking (16 miles) compared to predicted costs of \$17.87. Thus it would seem that I need another 5¢ over the special 5¢ allowed to me. This would add \$2.25 to my grade of ore based on the present content of 2.32% copper or bring my total grade to \$13.69.

I believe we can hold our production at about 10000 lbs of copper per month if the added 5¢ is granted.

Yours very truly,

R. L. Brown

P.S. - I am enclosing the pledge check

R. L. B.

March 10, 1944

Mr. R. L. Brown
Box 182
Tombstone, Arizona

Dear Mr. Brown:

I have just received a memo from Broadgate in Washington in which in part he quotes as follows:

"We have obtained a 5-cent premium for Brown bringing their price to 22 cents. I hope he can operate under this as you know the difficulties of getting revisions increase every day."

Broadgate wrote that probably you thought he was a little slow in acting and had taken the matter up with Senator Carl Hayden and it was immediately turned over to him as he was already working on the case.

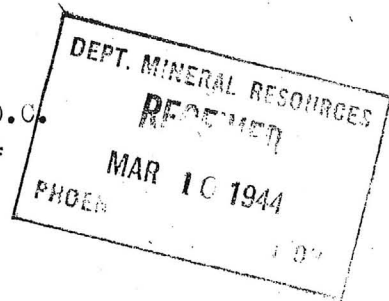
I would be glad to hear how you make out from time to time.

Yours very truly,

J. S. Coupal, Director

JSC:LP

Washington, D.C.
March 8, 1944



SUBJECT: R. L. Broam, Shannon Copper

We have obtained a 5¢ premium for brown, bringing his price to 22¢.

I hope he can operate under this as, as you know, the difficulties of getting revisions increase every day.

I am a little amused by the fact that he evidently thought I was not operating as rapidly as he would have liked and wrote Hayden on the Tombstone and Shannon without saying that we were already working on the cases. Of course, as you know, Hayden and I work very closely and I usually see all the correspondence he gets on mining matters, and I work for him when he gets individual inquiries. As a matter of fact, I throw all I can Hayden's way when a deal is made as I am anxious for him to get all possible support in the coming election.

I suppose I am supposed to be neutral, but Hayden is such a help to me, carrying out my requests without question, that I can hardly imagine anyone else in his office. I think Arizona would be stupid not to re-elect him and would be perfectly willing to take the stump for him.

Anyway, Brown is all fixed up as far as it is possible. He is far better off now than a lot of people I know.

Bill Broadgate

304 xx

March 9, 1944

Mr. R. L. Brown
Box 182
Tombstone, Arizona

Dear Mr. Brown:

Subject: Premium - Shannon Copper

I have just had the following memorandum from Bill Broadgate: "The Quota Committee has recommended the Shannon Copper for a 5-cent special premium and it has cleared all but Metals Reserve Company who I trust will approve."

By constant pressure we have managed to get a speed up on determinations on these premiums and I believe we will hear the results from the Metals Reserve company very shortly.

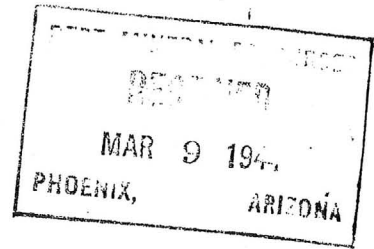
Yours very truly,

J. S. Coupal, Director

JSC:LP

Washington, D.C.
March 7, 1944

SUBJECT: Premium, Shannon Copper,
R. L. Brown



The Quota Committee has recommended this for a 5¢ special premium and it has cleared all but MRC, who I trust will approve. e

Bill Broadgate

March 6, 1944

MEMORANDUM

TO: W. C. Broadgate

SHANNON MINE PREMIUMS
R. L. Brown, Tombstone

FROM: J. S. Coupal

I have received a letter from R. L. Brown showing his appreciation of the work done on getting the back premiums for Tombstone Extension.

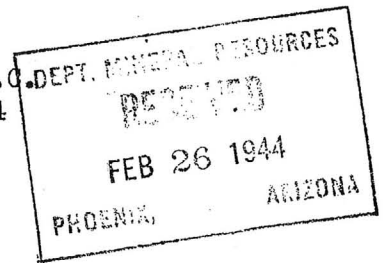
In addition, he writes as follows:

"I do hope there is no great delay in securing final action on re-consideration of my Shannon applications. Senator Hayden tells me that Strobel informed him that the special premium has been approved by the Quota Committee and is now up to M.R.C."

If there can be anything done toward speeding up action on the advanced premiums for the Shannon Mine at Gleeson, Arizona for R. L. Brown, I know it will be appreciated. He has already shipped two cars from his operations there.

JSC:LP

Washington, D.C.
Feb. 22, 1944



SUBJECT: Shannon Mine, R. L. Brown

A letter I received from Brown leads me to think that he believes, because of the Tombstone case, Quota Committee has a prejudice against him, hence his troubles with copper premiums.

This is not so.

The Shannon case was turned down because nothing in the application showed it was operating and the Copper Division, following its present policy of not stimulating any operation to begin mining if an investment is necessary, recommended it be not approved.

On the showing that Brown has been working and that ore is broken in the stopes, I have asked that he be given re-consideration.... and I have asked that he be given a good break because of his hard luck on other cases and the fact that I am afraid we cannot get MRC to approve the Tombstone.

Bill Broadgate

February 21, 1944

MEMORANDUM

R. L. BROWN, TOMBSTONE
TOMBSTONE EXTENSION - SHANNON COPPER

TO: W. C. Broadgate

FROM: J. S. Coupal

Last week while in Tombstone I talked with R. L. Brown and have in front of me now a copy of the letter written to you on February 16 from Brown, together with a copy of Form WPB 2465 for revision of quota on the Shannon Copper Mine.

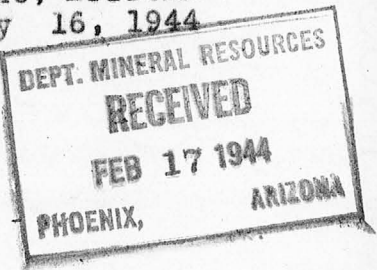
Brown has continued to operate his Tombstone Extension and is hoping that the premiums on this property will be adjusted some time within the near future. A letter from Strobel indicated that settlement would be made within a week and I talked with Brown on February 9.

Brown is very energetic and is trying to open up some of the other copper properties within a 30-mile radius of Tombstone. He is one of our active workers and I would appreciate your getting his situation cleared up if possible.

JSC:LP

Box 182
Tombstone, Arizona
February 16, 1944

Mr. W. C. Broadgate
Mr. Geo. H. Soule, Jr.
Senate Committee on Small Business
Washington, D. C.



Gentlemen:

Enclosed please find a copy of the information presented to Mr. Strobel at the time I wrote asking for a special premium on the Shannon Copper Mine. You will note that I specified starting work November 20 with maximum production on December 31. Yet on February 9 I am informed that I am not working.

The Shannon rejection makes the third copper property rejection, as I also submitted applications on the Gleeson and Tojon mines. All the nearby small copper producers are receiving from 7 to 10 cents special premium. As I wrote to Mr. Coupal, the only property where I have been able to secure a special premium is one where I ship in the name of another person.

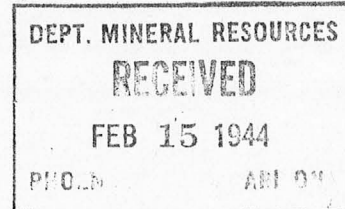
Very truly yours,

R. L. Brown

Enclosure

Box 182
Tombstone, Arizona
February 14, 1944

Mr. Sam Coupal
Department of Mineral Resources
Phoenix, Arizona



Dear Mr. Coupal:

I believe the enclosed letters present a fairly clear picture of my premium situation, on the Shannon. No word on the Extension, as yet.

I would certainly appreciate any action your department can take.

Recently I have been working a copper property at Helvetia for another lessee and paying him an overrider plus 10% royalty, because his copper is priced at 24 cents. Given the same price at the Shannon, I could produce over double the amount of copper available at the Helvetia property.

Very truly yours,

R. E. Brown

R. E. Brown

Enclosures

Box 182
Tombstone, Arizona
February 14, 1944

Mr. Landon F. Strobel
Executive Secretary, Quota Committee
Premium Price Plan for Copper, Lead & Zinc
Washington, D. C.

Dear Mr. Strobel:

I have your letter of February 9 which reached me by regular mail today.

I am unable to reconcile it with your telegram of February 5.

My telegram of February 4 asked permission to ship my ore and apply any premium granted later. Had the Shannon Mine been idle, I would not have had this ore ready for shipment.

Briefly my files show the following re the Shannon Mine.

- (1) After announcement of the special copper premium, I was able to purchase the Shannon Mine.
- (2) On November 15 I applied for the special premium and at that time I stated that I intended to reopen the mine, preferably with R. F. C. funds.
- (3) The mine was reopened and over \$2,000.00 expended in doing so, excluding equipment.
- (4) Although on December 22 it was planned to unwater another portion of the mine, it was found unnecessary to do so at once due to encountering more ore than was expected at the incline shaft. This ore was above the water level.
- (5) We started breaking this ore and by February 4 had broken so much in the mine that we were short of storage capacity. Hence our telegram of February 4.

Very truly yours,

R. L. Brown

CLASS OF SERVICE DESIRED	
DOMESTIC	CABLE
TELEGRAM	ORDINARY
DAY LETTER	URGENT RATE
SERIAL	DEFERRED
NIGHT LETTER	NIGHT LETTER

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

WESTERN UNION

1207

A. N. WILLIAMS
PRESIDENT

\$	CHECK
S	ACCOUNTING INFORMATION
F	TIME FILED

Send the following telegram, subject to the terms on back hereof, which are hereby agreed to

Washington DC 440 pm

Feb 5

19 44

To Ronald L. Brown

Care of or Apt. No. _____

Street and No. Tombstone, Arizona

Place _____

**FOR VICTORY
BUY
WAR BONDS
TODAY**

Reurtel 4 Shannon mine suggest you do not start copper shipments until you receive a notification from Committee next week.

Landon F Strobel W P B

Quota Committee

345 pm

Sender's name and address
(For reference only)

Sender's telephone
number

WAR PRODUCTION BOARD

WASHINGTON, D. C.

January 1, 1944

IN REPLY REFER TO

Mr. R. L. Brown
Box 182
Tombstone, Arizona

Dear Mr. Brown:

RE: GLEESON MINE

Your letter of December 27, with Forms WPB-2465 enclosed, is acknowledged herewith and I note that very little information is given on this form nor do you write us in regards to the type of ore you expect to mine in the Gleeson Mine.

Since you do not have a quota on the Gleeson Mine I am enclosing herewith two copies of Affidavit Statement of Mine Production, one of which return to me after filling out same and having notarized.

You inquire about your request for a quota revision for the Shannon Mine. I hope to be able to send you official notification of the Committees action on this matter sometime next week.

You likewise ask about the Tombstone Extension Mine. The Committee has acted on your request for a revision and same is now up for approval by the reviewing officers.

Very truly yours,

Landon F. Strobel
Executive Secretary, Quota Committee
Premium Price Plan for Copper, Lead & Zinc
WPB Dept. 4508

WAR PRODUCTION BOARD
WASHINGTON, D. C.

February 9, 1944

IN REPLY REFER TO

Mr. R. L. Brown
Box 182
Tombstone, Arizona

Dear Mr. Brown:

Re: Shannon Mine.

In view of the fact that the Shannon Mine is now idle, has not operated for some time and that its operation will require a substantial investment, we are advised by the Copper Division of the War Production Board that it is not believed advisable to re-open it at this time, and therefore, your application for a special premium has been denied.

Very truly yours,

Landon F. Strobel
Executive Secretary, Quota Committee
Premium Price Plan for Copper, Lead & Zinc
WPB Dept. 7103

Shannon Group

Nov. 29th, 1943

Box 506 Globe, Arizona.

NOV 30 1943

5152872

ARIZONA

Dear Mr Brown;

Thanks for your letter of the 25th, My program is arranged, so that I will be in the Tombstone area around the 14th, to 16th, of December and will be pleased to examine your rather extensive Old Shannon holdings, beyond your Incline shaft, already inspected.

Only fresh orders from our head office, or other powers beyond my control, might cause a change in plans, but of course you can depend on the Department to assist you, secure an accessibility loan, at least we can make the effort.

I am Yours very sincerely.

A. Macfarlane
Field Engr. Globe. Arizona

Shannon
11/19/43

November 19, 1943

Reconstruction Finance Corporation
325 Heard Building
Phoenix, Arizona

Gentlemen:

At the request of R. L. Brown, Box 182, Tombstone, Arizona, I am enclosing an application for a \$5,000 loan on the extension mine. Our engineer, Andrew Macfarlane, made an examination of this property on November 11, and I believe his report will be available within a few days.

Yours very truly,

J. S. Coupal
Director

JSC:JES

November 19, 1943

Mr. R. L. Brown
Box 182
Tombstone, Arizona

Dear Mr. Brown:

Your letter of November 16 with the application for a loan on the incline shaft of the Shannon Copper Mine in Gleeson has been received. I have briefly gone over it and believe everything is in proper order. I am forwarding it to the RFC Mine Office and have noted to them that a report by Macfarlane will be forwarded to them shortly.

At this writing I have not received Macfarlane's report but will see him later in the day at Globe and will urge him to rush this report through.

Very truly yours,

J. S. Coupal
Director

JSC:JES

CLASS OF SERVICE DESIRED	
DOMESTIC	CABLE
TELEGRAM	ORDINARY
DAY LETTER	URGENT RATE
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PRESIDENT

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Feb 5 19 44

To Ronald L. Brown

Care of or Apt. No. _____

Street and No. Tombstone, Arizona

Place _____

**FOR VICTORY
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WAR BONDS
TODAY**

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you receive a notification from Committee next week.

Landon F Strobel W P B

Quota Committee

345 pm

Sender's name and address
(For reference only)

Sender's telephone
number

How about a combination plan in ...

Stage 1: Government engineers review project and, if a little drilling to be justified and a preliminary key to the situation, such program to be agreed upon by owner and government engineer, by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify under development and/or production equipment, same to be obtain mortgage loan on property.

Please discuss the above: _____

SUGGESTIONS:

Although the Shannon Mine has a known tonnage of 100 000 tons of plus 2% copper ore and an estimated tonnage of 500 000 ton of plus 1% copper it lacks equipment and requires shaft repair.

DATE

Aug 5, 1950.

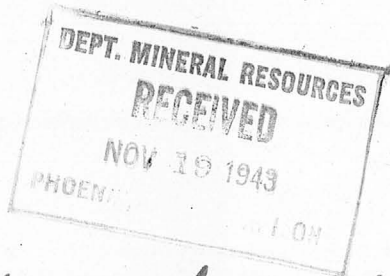
SIGNATURE

R. L. Brown for

Carrie M Brown, owner.

Box 52 Tombstone, Ariz.
Nov 16, 1943.

Mr J. S. Coupal, director.
Dept of Mineral Resources
Phoenix, Ariz.



Dear Mr Coupal:

Enclosed please find two copies of a loan application on the Incline Shaft of the Shannon Copper Mine at Gleason, Ariz.

Mr Macfarlane made an examination of the property on his last trip here (Nov 11th). He has also examined the Peach Claim at Helvetia for C.M. Mann, but that application will not be ready until later.

We will certainly appreciate anything that you can do to hurry this Shannon loan through the necessary processing. And we feel sure that we can put the property into production within thirty days thereafter.

Very truly yours,

R. L. Brown

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date Jan. 5, 1956

District Turquoise District ---- Cochise Co.

Engineer Axel L. Johnson

Subject: Mine Report. Personal visit & information from Jack Conley, mine superintendent.

For Location, Number of Claims, Owners, & Operators ---see my report of Dec. 14, 1954.

Officers Jack Conley, Mine Superintendent, Box 301, Tombstone, Arizona.

Principal Minerals & Number of Men Employed Same as my report of Sept. 9, 1955.

Production Rate Now producing and shipping about 50 tons of copper ore per day. Production of lead-zinc ore was suspended in August, 1955. The company then began exploration and development work in their copper ore bodies, and production of copper ore began shortly after Oct. 1, 1955. Production has been as follows: Oct. 2 cars, Nov. 18 cars, Dec. 28 cars, Jan (est) 30 cars.

Geology and Ore Values See reports of Dec. 14, 1954, and Sept. 9, 1955.

Mr. Conley further reports that current shipments of copper ore average about 4 % Copper. This copper ore runs about 28 % in Iron, 33 % in Sulphur, 2.2 % in Silica, & 2.5 % Alumina.

Ore in Sight and Probable See my report of Sept. 9, 1955. Probable Ore is now estimated by Mr. Conley to be approximately 185,000 tons. Mr. Conley reports that the company plans on shipping the higher grade copper ore to the smelter, while developing sufficient ore reserves to warrant the construction of a mill on the property. The lead-zinc ores will not be mined or development work done on same, until there is an increase in the price for these metals.

Milling and Marketing Facilities The copper ore mined is now being shipped to the International Smelter at Inspiration, Arizona.

Present Operations Stoping is now being done between the 400 and 500 foot levels. Two stopes are being worked and a third stope is being developed for operations. The ore is dumped into chutes, from which it is dumped into ore cars, and trammed out by electric motors, with about 800 ft. of motor tram.

Exploration and development work is being continued, using 1 diamond drill rig for U. G. diamond drilling. In addition, 2 drifts are being driven, and one raise put up.

Proposed Plans Company plans on continuing the underground exploration until 100,000 tons of copper ore is blocked out, after which the construction of a mill will be started. In the meanwhile, production and shipments of high grade copper ore will be continued.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date Sept. 9, 1955.

District Turquoise District, Cochise County.

Engineer Axel L. Johnson

Subject: Mine Report. Personal Visit and information from Jerry Faust, Manager.

For Location, Number of Claims, Owners, and Operators, see my report of Dec. 14, 1954.

Officers Jerry Faust, Manager, Box 301, Tombstone, Ariz.----Tel. 8021, Tombstone.
Mr. Faust stays at the Hacienda Huachuca Court, Tombstone, except at week ends.

Principal Minerals Ores of Copper, Lead and Zinc, with a large amount of pyrite.

Number of Men Employed 30 men (2 shifts worked).

Production Rate No ore production or ore shipments at present. 2500 tons of lead-zinc ore was mined, crushed and shipped to the Peru Mining Co. mill at Deming, N. Mex. in May, June, and July of this year. Ore production and shipments of lead-zinc ores were suspended recently, as it was found difficult to make a profit on this operation, due to the present low prices for lead and zinc. Company is now in the process of ~~development~~ developing ore reserves of copper ore.

Geology and Ore Values See report of Dec. 14, 1954

Mr. Faust reports some high grade copper ore developed, which runs from 4 to 8 % in Copper, with .08 to .09 oz Gold, and 2 to 12 oz. Silver. This is sulphide ore---mostly chalcopyrite, with some bornite. Mr. Faust also reports a considerable amount of low grade copper ore, running between 2 and 3 % in Copper.

Ore in Sight and Probable Mr. Faust reports that about 50,000 tons of copper ore, averaging between 2 and 3 %, has now been blocked out. Company is trying to develop 100,000 tons of copper ore reserves, which they consider adequate to warrant the construction of a mill on the property. Some high grade copper ore of 4 to 8 % has also been developed, which will be shipped directly to the smelter.

Milling and Marketing Facilities Company expects to ship the high grade copper ore directly to the International Smelter at Inspiration, or the A. S. & R. smelter at El Paso. They expect to start construction of a mill on the property, as soon as 100,000 tons of ore has been blocked out.

Present Operation Company is now doing development work for copper ore between the 300 and the 500 ft. levels of the mine. This development consists principally of long hole drilling with sectional steel, and 2 diamond drill rigs. 80 ft. maximum holes are drilled with long hole drilling, with about 65 ft. average. The sludge is collected and assayed.

Proposed Plans

- (1) Plan to continue exploration until 100,000 tons of ore has been blocked out.
- (2) Expect to start producing and shipping high grade copper ore in about a month (Oct. 10), shipping same to smelter.
- (3) Expect to start mill construction, after 100,000 tons have been blocked out.

- (4) Mine will be operated by underground methods. The mining method has not been entirely worked out as yet, but is expected to be either inclined cut and fill, shrinkage stopes, or open stopes. Block caving can not be used.

Information from Leslie (Jack) Conley - Box 517 - Tombstone

Mr. Conley also reported that the Shannon Mining Co. has given up the Shannon Mine permanently. Mr. Conley was formerly mine supt. at the Shannon Mine for the Shannon Mining Co., a subsidiary of the Peru Mining Co. (1956-1957). Memo ALJ 1-14-65

Visit to Shannon mine. No activity. GWI WR 7-10-65

Mine visit to Shannon mine, Gleason. There is a report that the property has been sold but have not been able to confirm. GWI WR 1-7-68

Bear Creek has acquired the old Shannon mine and the Independence Group in the area. They are trying to find maps of underground workings in the area for a diamond drilling program. VBD WR 3/31/75

MG/WR 1/14/80 - Checked an inquiry about the Shannon Mining Co. that produced ore from the Copper Belle mine in the Turquoise Dist., Cochise Co. The Shannon Mining Co. was still incorporated to transact business in Arizona through 1978 but I could not reach C.T. Corp. to determine what the current status is.

WR MG 1-14-80: Checked an inquiry about the Shannon Mining Co. that produced ore from the Copper Belle mine in the Turquoise District of Cochise Co. Its corporate address is 1400 Express Way Twoer, Dallas, Texas 75206, and its statutory agent is the C.T. Corp. System, 14 N. 18th Avenue, Phoenix, Arizona 85007, phone 253-2108. The Shannon Mining Co. was still incorporated to transact business in Arizona through 1978 but I could not reach C.T. Corp to determine what the current status is.

HEM WR 12/5/87: Bruce Christenson with the State Mine Inspectors office reports core drilling activity at the Shannon Mine (file) located immediately east of Courtland Arizona in Cochise County.

5

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date Dec. 5, 1957

District Turquoise District ----- Cochise Co. Engineer Axel L. Johnson

Subject: Present Status. Information from Jim Giacoma. No visit.

References Report of May 7, 1957
Report of Jan. 5, 1956
Report of Sept. 9, 1955
Report of Dec. 14, 1954

Owners See report of May 7, 1957

Principal Minerals Copper, Zinc and Lead, with a large amount of pyrite.

Present Status Mine is reported to have been closed down for approximately 2 months.
Reason for closing reported to be the low price for the metals.

Information from MINE INSPECTOR'S OFFICE - August 15, 1957

SHANNON MINE (10 Claims) Turquoise Dist., 4-20-57
Gleason, Ariz.

SHANNON MINING CO., Box 301, Tombstone, Ariz.
Pres. Blumberg, "
Sec. J. S. Flory, Jr.
Supt - J. Conley, Box 301, Tombstone

C - L - Z 2500 tons - 28 men

L.A.S.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date May 7, 1957

District Turquoise District --- Cochise Co.

Engineer Axel L. Johnson

Subject: New Information. Personal visit and information from Jerry Faust, & Jack Conley.

References Report of 1/5/56
Report of 9/9/55
Report of 12/14/54

Owners (New corporation set-up).

On Oct. 9, 1956, the following set-up was reported to the field engineer:

- (1) Illinois Zinc is now merged with Hydro-Metals Corp., Inc.
- (2) Peru Mining Co. is a subsidiary of the Illinois Zinc division of above company.
- (3) Shannon Mining Co. is a subsidiary of the Peru Mining Co.

Address of Peru Mining Co. is Box 309, Silver City, N. Mex.

Mr. Jerry Faust, General Manager, Box 309, Silver City, N. Mex.

Peru Mining Co. was at that time (Oct. 9) milling copper ores at their mill in Deming, N. Mex.

Principal Minerals Copper, Zinc and Lead, with a large amount of pyrite.

Present Mining Activity (May 7)

Mine is at present shut down for a few days, while the company is installing a new air compressor. Company producing copper ore and shipping to the International smelter at Miami, and, at the same time, exploring the ore body by means of underground diamond drilling. No production of zinc ore is planned on account of the recent drop in the price of zinc. Mr. Faust reports that the mines of the Peru Mining Co. in the Silver City, N. Mex. area have already closed down, and he expects that the Peru Mining Co. mill will be closed down also.

Ore in Sight and Probable

Mr. Faust reports that the company has proven up a couple of copper ore bodies recently by means of underground diamond drilling. One of these ore bodies is between the 300 and 400 ft. levels, and the other is between the 500 and 600 ft. levels. The tonnage and grade of ore in these ore bodies was not stated.

W

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine SHANNON COPPER CO., Gleeson Date September 21, 1942
District Gleeson Engineer George A. Ballam
Subject: Production Possibility Survey

The Copper Belle Mine owned by Shannon Copper Co., and formerly known as the Leonard Mine, is on the Charleston claim, one of 9 patented claims owned by the company in Gleeson. It was operated about the turn of the century by Mr. John Gleeson who informed me that in 5 years he shipped 4 to 7% copper ore to the Clifton smelter in the value of \$280,000. To obviate the necessity of long wagon hauls, attempts were made to operate two copper furnaces of 400 tons daily capacity on the heavy sulfide ore, but these proved unsuccessful. In 1907 the Shannon Copper Co. acquired the mine and that year produced 65,000 pounds of Cu., 21,000 ozs. Ag. and 307 ozs. Au. Between 1911 and 1922, 305,000 tons of ore of high sulphur content were shipped to the Clifton smelter.

In 1923 an attempt was made to roast the ore in place and leach, precipitating Cu. from pumped solution. The workings were filled with timber, ties and fuel oil and ignited. The plain failed. Part of the destroyed timber has since been replaced.

Development consists of 40,000 feet on six levels. The ore is in a lime-monzonite contact, chalcopyrite and bornite with heavy sulfides of iron. According to Mr. Gleeson there is considerable workable ore remaining, 11% Cu in carbonates and 4-6% in sulfides.

Cost of making workings accessible by unwatering, together with unknown condition of drifts owing to destruction of timber, appear to be the major obstacles to reopening this operation. Mr. Gleeson believes there is sufficient ore of high enough grade to make operation profitable at current price.

(Signed) George A. Ballam

Brown, Carrie M. , Owner
Box 182, Tombstone, Ariz.

5-14-52

See - SHANNON MINE, Turquoise Dist., Cochise Co. Re-Field Report

Leasers and Operators: Shannon Mining Co., Comprising the following

(1) Freeman Lomaline, 3488 Via Golondrina, Tucson, Ariz.	19%	interests
(2) K.C. Moon, 706-16th St., Douglas, Ariz.	19%	
(3) A.J. Hutchinson, Box 609, Douglas, Ariz.	19%	
(4) Ira Van Tuyl, 701 Hullman Bldg., Evansville, Ind.	19%	
(5) J.D. Haynes, Odessa, Texas	19%	
(6) Four other parties - 1 1/4 % each	5%	

Tucson, Ariz.

See - SHANNON MINE, Turquoise Dist., Cochise Co. Re-Field Report
Owner - CARRIE M. BROWN, Box 182, Tombstone, Ariz.

Leasers and Operators: Shannon Mining Co., Comprising following interests

✓(1) Freeman Lomaline	Tucson, Ariz.	19%
✓(2) K. C. Moon, 706-16th St.,	Douglas, "	19%
✓(3) A.J. Hutchinson, Box 609,	Douglas, "	19%
✓(4) Ira Van Tuyl, 701 Hullman Bldg., Evansville, Ind.		19%
✓(5) J. D. Haynes,	Odessa, Texas	19%
(6) Four other parties - 1 1/4 % each		5%

See Tombstone Development Co., Mines 11-16-51

SHANNON COPPER. John Gleeson, owner, Gleeson, Arizona.

Formerly known as the Leonard Mine this property has a long history of production, though not a profitable one.

In 1923 an attempt to roast the ore in place was made, the workings were filled with timber and fuel oil and this was ignited. The plan failed, and subsequently some of the workings were re-timbered.

Some 40,000 feet of development on six levels along a limestone-monzonite contact has been performed. Some 11% cu. carbonate ore and a large quantity of 4% to 6% sulphide ore is still in place in the workings.

The obstacle of reopening the property, which would be difficult due to the burning of the timbers in the roasting attempt, is primarily one of finance. Repayment of the cost would pauperize operations for some time, but there is undoubtedly a considerable quantity of copper to be gained.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Date November 18th, 1943
District Tourquoise, Gleason- Courtland. Engineer A. Macfarlane
Subject: Mine Examination Page 2

C. M. Brown, of Tombstone, Arizona the Shannon patented claims at tax sale; the 5 year period of redemption having passed, it is apparent that C.M. Brown is the present legal owner.

Mine Workings; This report is confined to the certain portion of the mine called Incline Shaft and the drifts and stopes, now open and connected therewith.

This shaft is open and in fair condition from Collar down to the 200' level on an incline of 70 degrees; below the 200' level is likely a mined area and a choke or caved ground, plugs this shaft at about 230', therefore only the ground above the 230' depth was inspected.

Extending from the 200' level station in an Northeasterly direction a drift about 80' followed a hard sulfide vein, the most easterly 40' of this drift has been underhand stoped to a depth of about 18' and the apparent width of the mineralization is over 4'.

I would expect the mineralization (copper sulfide ores) to extend both upwards to the 100' level also to a yet undetermined depth below the 200' level. Three samples taken here, two on the drift back and a shovel sample of a 10 ton pile of muck, mined from the floor of the underhand stope, all assayed over 4% copper and a few ounces in silver.

A commercial quantity of copper ores of about the grade stated can be mined from this area of the mine.

The upward extention of this ore shoot, is again cut in a drift on the 100' level, but here the ores are oxides and carbonates of copper; a sample of the vein near the drift back and the southwest end of an old stope, assayed 5.52% copper but is void of silver;; It is here noted that the better gold silver content of the mineralization, occurs in the hard sulfide ores.

Ore Tonnage ; Available from the 200' upwards and extending above the 100' level, measures between 1400 and 2000 tons, the probable ores greatly exceeding this tonnage estimate.

On rehabilitating this old mine say to the 300' level in the Incline shaft, no doubt additional ore reserves will be made available both within former workings and extentions of the drifts as further advised exploration.

Proposed Rehabilitation; In order to mine and hoist the ores, as above stated, it is now required to repair and replace the Incline shaft sets in part, and to extend the shaft timbering about 25' to reach to below the 200' level.

A small but competent headframe with hoist and change room, together with mine drilling equipment, of about 220 Cu Ft. of compressed air per unit, of two drills, the required air and water lines, ore bin and some road repairing, will all consume approximately \$5,000, installed and placed in operation, about \$5,000.00

W

**DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT**

Mine Shannon Date November 18th, 1943
District Tourquoise, Gleason-Courtland Engineer A. Macfarlane
Subject: Examination. Page 3

Geologic Phases; The main hills forming the upper rock structures of the belt between Gleason and Courtland are mostly limestone, tilted at varying dips and intruded by quartzite and granodiorite. Gossanized along the fractures and contact planes, at certain localities the copper mineralization found favorable deposition elements within the metamorphic deposits.

A distinct alteration of the mineral deposition is evident from the back of the 100' level where the ores are carbonates and oxides, in a talcose gangue of disentraged quartz and limonite, in sizeable lenses within the limestone walls.

The vein made visible by the drift and stope of the 200' level, is hard; a gangue composed of Gabbro and quartz apparently is the host rock for the copper and iron sulfides and likely these sulfide minerals are under the surface limes, and are the accompanying elements of Igneous Intrusives, terminating against the lower limestone.

Mining Costs; In view of much valuable exploration work having been made years ago and that this old work, has left a commercial ore supply, in the part of the old mine now considered, stoping the ores may proceed, soon as the Shaft and Hoist are ready.

The cost of mining (stopping) should not exceed per ton	\$ 4.00
Exploration and development (physical features)	2.00
Taxes, S.S. Accounting etc. and Ins.	2.00
All direct mining costs, Smelter grade.	<u>8.00</u>

<u>Marketing</u> --- Trucking to Rail and loading ore at per ton	\$2.50	
Rail freight on 15.00 ore to El Paso " "	1.50	
Smelting charges on 15.00 ore	3.50	7.50
Total costs to mine and market ores of this mine, per ton		<u>15.50</u>

If a market for the Shannon ore can be obtained in Douglas, a saving of about \$1.00 per ton Rail freight can be made	1.00
Total Costs	<u>....\$14.50</u>

At a price of 14 and small fraction of a cent, this mine will not pay a profit from the available and present visible ores, about 14.1 cts, is the smelter plus the A copper premium net price to miner.

Labor, supplies, Ins. and taxes now fixed at exalted prices, demands a net price of 20 cts, per pound for all small copper mining enterprises.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine Date May 27, 1955
District Turquoise Dist., Cochise County Engineer Axel L. Johnson
Subject: Personal Visit, and information from Jack Conley -- Present Status

Location. Near Gleason, Ariz.

Owners. See previous report.

Lessees and Operators. See previous report.

Principal Minerals. Lead and zinc.

No. of Men Employed -- 35

Production Rate. 50 tons per day crushed and shipped, to the company's mill at Deming, N. M.

Ore Values. Approx. 25% combined zinc and lead--about 5 to 1 of zinc

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date May 5, 1955.

District Turquoise District --- Cochise Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit and Information from Jack Conway, Asst. Manager.

Location See report of Dec. 14, 1954.

Number of Claims See report of Dec. 14, 1954.

Owners and Operators See report of Dec. 14, 1954.

Officers Jerry Faust, Manager, Box 301, Tombstone, Ariz.
Jack Conway, Asst. Manager, Tombstone, Ariz.

Principal Ores and Minerals Lead and Zinc ~~principally~~ with a considerable amount of copper of milling grade.

Number of Men Employed 36 men. 16 on surface and 20 underground, (10 each on 2 shifts).

Production Rate No production at present. Expect to start production about June 1st on Lead and Zinc ores. Work now preparations for production.

Geology See report of Dec. 14, 1954.

Ore Values Mr. Conway reports that the lead-zinc ore blocked out will average about 15 % lead, 25 % zinc, with a small amount of copper.

A considerable amount of low grade copper ore, running from 0.88 to ~~3.5~~ 3.5 %~~x~~, which may average 1.5 to 2.0 %, with a large amount of pyrite.

Ore in sight and probable Mr. Conway reports that about 50,000 tons of lead-zinc ore, with 15 % lead and 25 % zinc, has now been blocked out. Lower limits of this ore body has not, as yet, been determined.

Probable ore----see report of Dec. 14, 1954.

Milling and Marketing Facilities See report of Dec. 14, 1954.

Present Operations Company is cleaning out old drifts and repairing old stopes, preparatory to stoping ore. Company is installing a 15 in. x 38 in. jaw crusher, a 130 ft. conveyor belt, and a 250 ton ore bin. Company will crush the ore to minus 2 inch, after which the ore will be trucked to Cochise for shipment to the Peru Mining Co. mill at Deming, N. Mex. (subsid. of Illinois Zinc Co.)

Also conducting diamond drilling operations, both surface and underground.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date Dec. 14, 1954

District Turquoise District --- Cochise Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal Visit and information from L. J. Conley, Mine Supt.

Location 35 miles north of Douglas. 1/4 mile north of Gleeson.

Number of Claims 9 patented claims.

Owners Shannon Mining Co., Box 301, Tombstone, Ariz. The Shannon Mining Co. is a subsidiary of the Illinois Zinc Co. Property was purchased from A. J. Hutchinson, K. C. Moon, Ira Van Tuyl, and J. D. Haynes on or about April 1, 1954.

Operators Same as above.

Officers Jerry Faust, Manager, Tombstone, Ariz.
L. J. Conley, Mine Supt.

Principal Ores and Minerals. Ores of Copper, Lead and Zinc, with a great deal of Pyrite.

Number of Men Employed 25 on 2 shifts. 20 on day shift and 5 on night shift.

Production Rate No production yet. Company is engaged in preparatory work.

Geology Limestone replacements along quartz-monzonite contacts. The quartz monzonite sills have come up along the bedding planes of the limestone, following a general dip of 45 degrees to the east. Three of these sills have been explored---one being 200 ft. wide, one being 100 ft. wide, and the other one being 75 ft. wide. The ore bodies are irregular lenses along these contacts, maintaining a tabular roughly vein like character. Ore bodies vary in width from the maximum of 60 ft. to a minimum of 10 ft. or less. The length and height of the ore shoots vary from 50 ft. to 150 ft. In places, the limestone --- quartz monzonite contact is barren, or confined to a narrow mineralized fracture.

Ore Values Low grade copper ore ----running from 0.88 % to 3.5 % Copper. May average 1.5 to 2 %. Past shipments of the old Shannon Copper Co. averaged from 0.88 to 3.5 %.
Lead ores run from 5 to 20 %. May average 12 %.
Zinc ores run from 15 to 30 %. May average 18 %.
Pyrite runs from 40 to 49 % in Sulphur.

Ore in Sight and Probable Mr. Conley reports that 30,000 tons of Lead-Zinc ore has been blocked out, averaging roughly 25 % in combined lead and zinc.

Probable ore --- Copper --- 200,000 tons of 1.5 to 2 % ore.
" --- Lead-zinc ---- 50,000 tons of 30 % Pb. & Zn.
" --- Pyrite ----- 1,000,000 tons.

Milling and Marketing Facilities Company will haul the ore to Cochise for shipment to the Peru Mining Co. mill at Deming, N. Mex. (subsidi. of Illinois Zinc). Company anticipates building a mill on the property at some future date.

Present Operations Company is pumping out the Pemberthy shaft from the 300 to the 600 ft. levels, and retimbering shaft where required. They are also cleaning out the old drifts, on the 300 ft. level. They have installed a hoist and compressor.

Proposed Plans Company has applied for a D. M. E. A. loan for exploring for copper deposits.
Diamond drilling U.G. & Surface. Also drifting for D.D. stations. W

FORM WPB-2465 (5-31-43)	UNITED STATES OF AMERICA WAR PRODUCTION BOARD	BUREAU OF THE BUDGET NO. 08-R332.1 APPROVAL EXPIRES APRIL 30, 1944	
INFORMATION TO BE USED IN THE REVISION OF QUOTAS FOR NEW MINING OPERATIONS		NAME OF MINE Shannon Copper Mine	
TO: War Production Board, Washington, D. C. ATTN: <i>The Executive Secretary of the Quota Committee Premium Price Plan for Copper, Lead and Zinc</i>		LOCATION OF PROPERTY Gleeson, Arizona	
INSTRUCTIONS - One (1) original and three (3) copies of this form are to be filled out and sent to the above address. The term "tons" means dry tons of 2,000 lbs. The term "mine" means any mine, group of mines, dump, or other source of primary metal-bearing material for which a quota is to be revised. (All new mining operations receive zero A quotas upon application. "Revision" as used herein refers to the establishment of B or C quotas for such mines.) Only those questions or parts of questions applicable to the operation to be described should be answered.		NAME OF COMPANY R. L. Brown and C. M. Brown	
		LOCATION OF COMPANY Box 182, Tombstone, Arizona	
		DATE Nov. 15, 1943	
1. DESCRIPTION OF PROPOSED OPERATION (DESCRIBE HERE IN GENERAL TERMS THE PROPOSED OPERATION, USING ONLY THE SPACE BELOW)			
<p>It is proposed to rehabilitate the old incline shaft on the Shannon property and remove ore from the 150 foot level. It is also proposed to remove ore from under the gossan near the incline shaft and continue to sink on this ore.</p>			
2. ORE RESERVE DATA AS OF THE MOST RECENT DATE AT WHICH ESTIMATED		DATE OF ESTIMATE Nov. 15, 1943	
CLASSIFICATION	SHORT TONS	AVERAGE GRADE	
		OUNCES PER TON PERCENT	
		GOLD SILVER ZINC LEAD COPPER	
PROVEN	250	.04 8.0 --- --- 4.5	
PROBABLE	750	.01 0.5 --- --- 4.5	
DESCRIBE IN THE BLANK SPACE ON THE LAST PAGE OF THIS FORM THE BASIS UPON WHICH THE ABOVE ORE RESERVE ESTIMATES WERE MADE, SUCH AS CHURN DRILL RESULTS, ASSAYS OF SAMPLES, OR SHIPMENTS OF ORE.			
3. PRODUCTION ESTIMATES			
ITEM	DATE	ITEM	SHORT TONS
A. STATE ESTIMATED DATE WHEN PRODUCTION WILL BEGIN	Nov. 30, '43	C. STATE THE ESTIMATED MAXIMUM RATE OF PRODUCTION IN SHORT TONS PER 24-HOUR DAY, OF (1) DIRECT SMELTING ORE	10
DATE WHEN MAXIMUM PLANNED RATE OF PRODUCTION WILL BE OBTAINED	Dec. 31, '43	(2) MILLING ORE	0
ITEM	NUMBER	ITEM	NUMBER
B. HOW MANY MEN (MAXIMUM) WILL BE REQUIRED TO PREPARE MINE AND MILL FOR PRODUCTION? (1) UNDERGROUND	4	D. HOW MANY MEN WILL BE REQUIRED? (1) UNDERGROUND	4
(2) SURFACE	1	(2) SURFACE	1

3. PRODUCTION ESTIMATES - Continued

C. IF THE ORE IS TO BE SHIPPED DIRECT TO A SMELTER OR A CUSTOM MILL, STATE THE GRADE OF THE ORE TO BE SHIPPED IN THE TABLE BELOW: ATTACH A COPY OF A SETTLEMENT SHEET OR PURCHASE SCHEDULE OF THE SMELTER OR CUSTOM MILL.

D. IF THE ORE IS TO BE MILLED AT THE PROPERTY AND CONCENTRATES ARE TO BE SHIPPED, STATE IN THE TABLE BELOW THE ESTIMATED GRADES, RECOVERIES, AND SO FORTH, AND ENCLOSE A COPY OF A SETTLEMENT SHEET OR PURCHASE SCHEDULE OF THE SMELTER OR SMELTERS TO WHICH THE CONCENTRATES ARE TO BE SHIPPED.

ITEM	GRADE OF ORE	CONCENTRATE CONTENT	OUNCES PER TON		PERCENT		
			GOLD	SILVER	ZINC	LEAD	COPPER
		CRUDE ORE GRADE					
OUNCES GOLD PER TON	.025	LEAD CONCENTRATE					
OUNCES SILVER PER TON	3.0	COPPER CONCENTRATE					
PERCENT ZINC	---	MILL RECOVERY ZINC RECOVERY <i>concentrate</i>					
PERCENT LEAD	---	LEAD CONCENTRATE					
PERCENT COPPER	4.5	COPPER CONCENTRATE					

E. STATE IN THE TABLE BELOW THE TONS OF CONCENTRATES EXPECTED TO BE OBTAINED PER 100 TONS OF MILLING ORE MILLED.

F. STATE IN THE TABLE BELOW THE ESTIMATED CHARGES AND NET SMELTER OR MILL RETURNS PER TON OF DIRECT SMELTING ORE, OR ORE TO BE SHIPPED TO CUSTOM MILLS, OR PER TON OF CONCENTRATES. NET SMELTER OR CUSTOM MILL RETURNS MEANS THE NET MONEY PER TON TO BE REALIZED FOR THE ORE AFTER FREIGHT AND SMELTER OR MILL CHARGES, ROYALTIES AND OTHER DEDUCTIONS, and does not include any premium payments either in the "A" range under zero quotas or in the other ranges. THEREFORE, IF THE SUM OF THE FREIGHT AND SMELTER OR MILL CHARGES WILL BE GREATER THAN SMELTER OR MILL PAYMENTS, WITHOUT PREMIUM PAYMENTS, SHOW HOW MUCH GREATER THE CHARGES WILL BE. LABEL THIS AMOUNT "DEFICIT".

ITEM	TONS	ITEM	FREIGHT CHARGES PER TON	SMELTER CHARGES PER TON	ROYALTY PER TON	NET SMELTER OR MILL RETURNS PER TON
ZINC CONCENTRATE		DIRECT SMELTING ORE OR ORE TO BE SHIPPED TO CUSTOM MILLS	\$ 1.60	\$ 3.50	\$ -	\$ 3.69
LEAD CONCENTRATE		COPPER CONCENTRATES				
COPPER CONCENTRATE		LEAD CONCENTRATES				
		ZINC CONCENTRATES				

4. COST ESTIMATE

A. INDICATE BELOW THE ESTIMATED OPERATING COSTS PER TON OF CRUDE ORE. THESE COSTS SHOULD NOT INCLUDE FREIGHT ON OUTGOING ORE OR CONCENTRATES, SMELTER CHARGES OR DEDUCTIONS, OR ROYALTIES.

B. ARE THE ORE BODIES IN A VEIN? YES NO
IF SO:

ITEM	MILLING ORE	DIRECT SMELTING ORE OR ORE TO BE SHIPPED TO CUSTOM MILLS	WHAT IS THE AVERAGE STOPPING WIDTH?	FEET
EXPLORATION	\$	\$.17	HOW LONG ARE THE AVERAGE ORE BODIES?	
DEVELOPMENT		.55	IS THE DIP <input checked="" type="checkbox"/> FLAT OR <input type="checkbox"/> STEEP?	
MINING		7.50	ARE THE ORE BODIES IN BEDS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF SO:	FEET AVERAGE
MILLING		.00	HOW THICK IS THE ORE IN THE BEDS	about 2
OTHER (Specify)		1.55	IS THE MINE OPENED BY A SHAFT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF SO:	FEET
50% equipment cost		2.00	HOW DEEP IS THE SHAFT?	200
Truck to R. R.		1.00	HOW MANY WORKING LEVELS?	2
Moisture Loss			IS THE MINE OPENED BY A TUNNEL? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO:	FEET
TOTAL		12.77	HOW LONG IS THE TUNNEL?	
			WHAT METHOD OF MINING IS USED? (FOR EXAMPLE - SQUARE-SET, SHRINKAGE, CUT AND FILL)	cut and fill

5. INVESTMENT ESTIMATES - SPECIFY UNDER THE GENERAL HEADINGS INDICATED ON THE FOLLOWING TABLE THE EXPECTED CASH INVESTMENTS REQUIRED. INCLUDE ONLY CASH INVESTMENTS SINCE JANUARY 1, 1942. OMIT CENTS.

ITEM	MADE TO DATE SINCE JANUARY 1, 1942	FURTHER ANTICIPATED ¹	TOTAL
EXPLORATION	175	0	175
ORE-TESTING	0	0	0
DEVELOPMENT (PHYSICAL WORKINGS ONLY)	50	500	550
SAMPLING	25	175	200
MINING PLANT (GROUP IN GENERAL CATEGORIES)			
Hoist	0	400	400
Head Frame	0	175	175
Compressor & Machine	0	2125	2125
Pipe & Track	0	500	500
TOTAL MINING PLANT			
MILLING PLANT (GROUP IN GENERAL CATEGORIES)			
	0	0	0
TOTAL MILLING PLANT			
OTHER			
		150	150
TOTAL OTHER			
TOTAL			4275

¹Amount necessary to reach rate of production described under 3-C above.

6. FINANCIAL CONDITION - ATTACH TO THESE PAPERS A RECENT STATEMENT OF CURRENT ASSETS AND LIABILITIES. IF YOU HAVE AN RFC LOAN OR OTHER TYPES OF LOANS, STATE:

AMOUNT YOU OWE ON LOAN	DOLLARS	WHEN DUE	DATE
	Have applied		

IF YOU HAVE ANY ORE STOCKPILED FOR SHIPMENT OR MILLING, STATE:

ESTIMATED TONNAGE OF SUCH ORE	TONNAGE	ESTIMATED AMOUNT YOU CAN REALIZE ON IT	DOLLARS

7. DO YOU OWN THE PROPERTY? YES NO IF NOT:

WHO OWNS IT?	DOES THE ROYALTY APPLY ON THE PURCHASE PRICE?	
	<input type="checkbox"/> YES <input type="checkbox"/> NO. IF SO, STATE:	
WHAT ROYALTY WILL YOU PAY?	PURCHASE PRICE	DOLLARS
% OF NET SMELTER RETURNS	IF OTHER BASIS, DESCRIBE	

8. ARE THE ORES TO BE MINED MOSTLY OXIDIZED ORE? IF SO, STATE WHAT RECOVERIES ARE EXPECTED.

<p>1. NAME OF PROPERTY</p> <p>2. LOCATION OF PROPERTY</p> <p>3. NAME OF OPERATOR</p> <p>4. TYPE OF ORE</p> <p>5. QUANTITY OF ORE</p> <p>6. DATE OF REPORT</p>	<p>7. RECOVERIES EXPECTED</p> <p>8. OTHER INFORMATION</p>
---	---

CERTIFICATION - THE UNDERSIGNED COMPANY, AND THE OFFICIAL EXECUTING THIS CERTIFICATION ON ITS BEHALF, HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS REPORT IS CORRECT AND COMPLETE TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

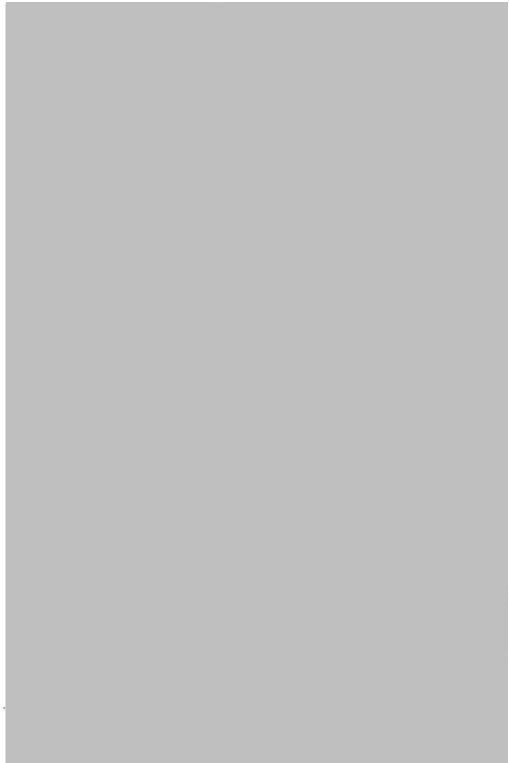
 NAME OF COMPANY

 DATE

BY _____
 SIGNATURE OF AUTHORIZED OFFICIAL

 TITLE

SECTION 35(A) OF THE UNITED STATES CRIMINAL CODE, 18 U.S.C. SEC. 80, 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.



Mining World 6/1954



DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date Feb. 11, 1954

District Turquoise District, Cochise County.

Engineer Axel L. Johnson

Subject: Mine Report . Information from A. J. Hutchinson, part owner

Location 35 miles north of Douglas.----1/4 mile north of E Gleason.

Number of Claims 9 patented claims.

Owners A. J. Hutchinson, Box 609, Douglas, Ariz. ----- 1/4 interest.
K. C. Moon, 706 -- 16th St., Douglas, Ariz. ----- 1/4 interest.
Ira Van Tuyl, 701 Hullman Bldg., Evansville, Ind. ----- 1/4 interest.
J. D. Haynes, Odessa, Texas ----- 1/4 interest.
Mine was purchased from Carrie M. Brown, Tombstone, Ariz. former owner.

Prospective Purchaser Texas Gulf Sulphur Co. has a 30 day option to inspect the property. After the expiration of the 30 days, they then have an additional 90 day option to do exploration work to determine if they wish to purchase the property. The option was written on Feb. 4, 1954. The option to do exploration work expires on March 4, 1954, and the option to purchase the property expires on June 4, 1954.

Herbert H. Brown, 833 E. Edgemont, Phoenix, Ariz. (Tel AM 5-3616) is the local representative of the Texas Gulf Sulphur Co.

It is understood that the Texas Gulf Sulphur Co. is primarily interested in the large deposits of pyrite in the mine, from which they plan on manufacturing sulphuric acid----but that they also consider the other minerals (copper, lead, etc) in the mine to be of value also.

Principal Minerals Pyrite, and ores of Zinc and Copper.

Number of Men Employed None.

Production None.

Ore Values Mr. Hutchinson reports large bodies of pyrite which average from 40 to 49 % in Sulphur, with 30 to 35 % in Iron, and about 1 Oz. in Silver. He also reports deposits of Zinc-Lead ores, averaging from 30 to 34 % Zinc, 7 to 18 % Lead, with a small amount of Copper, and 3 to 5 oz. of Silver. He also reports some tonnage of 2 1/2 to 3 % copper ore in the form of ~~masses~~ chalcopyrite and bornite, and some 1 % carbonate leaching ores.

Ore in Sight or Blocked out Estimate by A. J. Hutchinson:-

- (1) Pyrite -----200,000 tons.
- (2) Zinc Ores--- 3,000 tons. (30 %Zn)
- (3) Copper Ores - - - - -

Probable Ore Estimated by A. J. Hutchinson:-

- (1) Pyrite -----1,000,000 tons
- (2) Zinc ----- 20,000 tons (30 %)
- (3) Copper Ores ----- 200,000 tons (2 1/2 %)

Possible Ores Estimate by A. J. Hutchinson:

- (1) Pyrite ----- 2,000,000 tons.

Terms of Option to Purchase

Not for publication.
There is now a \$2,300 R. F. C. loan on the property.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date Aug. 15, 1952.

District Turquoise District, Cochise Co.

Engineer Axel I. Johnson

Subject: Mine Report

For details --- see report of May 14, 1952.

This mine was closed down on June 20, 1952. The reason given for the closing down of the mine was the drop in zinc and lead prices. According to one of the officials of the company, there ~~was~~ was, evidently, another reason also. The ore lenses, which they had expected to furnish a considerable tonnage of ore, proved to be rather shallow and superficial in character.

The Shannon Mining Co. spent somewhere in the neighborhood of \$85,000 to \$90,000 in repairing and retimbering the shaft, construction of a headframe, and on ore bins and mining equipment. The reopening of this mine will depend on the price of lead and zinc, and also upon the company's ability to find sufficient ore reserves for a profitable mining operation.

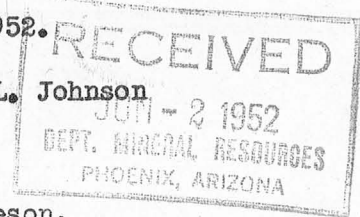
DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine (old Copper Belle or Leonard) Date May 14, 1952.

District Turquoise Dist., Cochise Co.

Engineer Axel L. Johnson

Subject: Mine Report --- Personal visit.



Location 35 miles north of Douglas--- 1/4 mile north of Gleeson.

Number of Claims 9 patented claims

Owner Carrie M. Brown, Box 182, Tombstone, Ariz.

Leasers and Operators Shannon Mining Co., comprising the following interests:-

- (1) Freeman Lomalina, 3488 Via Golondrina, Tucson, Ariz. -----19 %
- (2) K. C. Moon, 706--16th St., Douglas, Ariz. -----19 %
- (3) A. J. Hutchinson, Box 609, Douglas, Ariz. -----19 %
- (4) Ira Van Tuyl, 701 Hullman Bldg., Evansville, Ind. -----19 %
- (5) J. D. Haynes, Odessa, Texas -----19 %
- (6) Four other parties-- 1 1/4 % each ----- 5 %

Metals Present Copper, Lead, Zinc, Gold, Silver, Iron Pyrites.

Men Employed 15 men and 3 supers. 4 men repairing mill at Tombstone, 4 men repairing shaft at the Shannon Mine, 4 laborers on surface at the mine, hoistman, machinist and electrician.

Production Rate Not in production yet, but getting ready for production shortly.

Milling Facilities The mill at Tombstone will be used to mill the lead-zinc ore which they expect to produce from this property. This mill is now being repaired and changed over to take care of this type of ore. They expect to mill 100 tons per day at the mill.

Geology See report on this property under date of Jan.15, 1952.

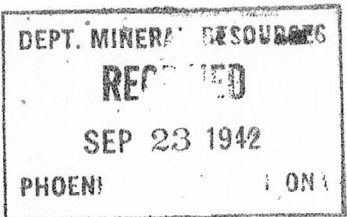
Ore Values Operators have 5 ore lenses of lead-zinc ore on the 200 ft. level, which they are going to mine and mill first. These assays as follows (1) Zinc 18.9 % and Lead 12.8 %, with 6 oz. of Ag. (2) Zinc 18 % and Copper 2 % (3) Zinc 34 % and Lead 20 % (4) Zinc 15 % and Lead 5 % and (5) Zinc 15 % and Lead 5 %. The ore also averages about 10 % Iron. Operators also claim to have a pocket of 50,000 tons of pyrite ore on this level, which averages 49.8 % of Sulphur.

Old Workings and Past Production See report under date of Jan. 15, 1952.

Present Operations Company is now repairing the shaft at Shannon Mine, and changing over the mill at Tombstone. They have, so far, repaired the shaft down to the 200 ft. level, installed head frame, built ore bins and water tank, installed hoist and compressor, and cleaned out 400 ft. of drift on the 200 ft. level.

Proposed Plans Start stoping ore from the 200 ft. level in the very near future, hauling ore to Tombstone in their own trucks, and milling the ore at the Tombstone mill. They expect to mine 100 tons per day when they get going.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine Shannon Copper Co., Gleeson

Date Sept. 21, 1942

District Gleeson

Engineer George A. Ballam

Subject: PRODUCTION POSSIBILITY SURVEY

The Copper Belle Mine owned by Shannon Copper Co., and formerly known as the Leonard Mine, is on the Charleston claim, one of 9 patented claims owned by the company in Gleeson. It was operated about the turn of the century by Mr. John Gleeson who informed me that in 5 years he shipped 4 to 7% copper ore to the Clifton smelter in the value of \$280,000. To obviate the necessity of long wagon hauls, attempts were made to operate two copper furnaces of 400 tons daily capacity on the heavy sulfide ore, but these proved unsuccessful. In 1907 the Shannon Copper Co., acquired the mine and that year produced 65,000 pounds of Cu 21,000 ozs. Ag and 307 ozs. Au. Between 1911 and 1922, 305,000 tons of ore of high sulfur content were shipped to the Clifton smelter.

In 1923 an attempt was made to roast the ore in place and leach, precipitating Cu from pumped solution. The workings were filled with timber, ties, and fuel oil and ignited. The plan failed. Part of the destroyed timber has since been replaced.

Development consists of 40,000 ft. on six levels. The ore is in a lime-monzonite contact, chalcopyrite and bornite with heavy sulfides of iron. According to Mr. Gleeson, there is considerable workable ore remaining, 11% Cu in carbonates and 4-6% in sulfides.

Cost of making workings accessible by unwatering, together with unknown condition of drifts owing to destruction of timber appear to be the major obstacles to reopening this operation. Mr. Gleeson believes there is sufficient ore of high enough grade to make operation profitable at current price.

George A. Ballam

LEAD-ZINC QUESTIONNAIRE

October 15 1957.

Do you approve of the Emergency Lead-Zinc Committee's seeking relief for the lead-zinc industry and has it your authorization to speak for you? yes

What Arizona Mines and Mills in the lead-zinc class do you control?

(1) Shannon Mine, Gleeson Arizona

(2) _____

Which ones are operating? (1) _____ (2) _____

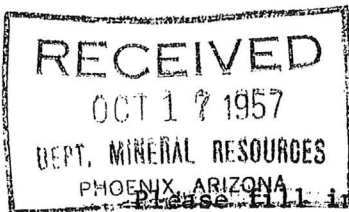
If not operating, when shut down? (1) August 57 (2) _____

Number employed, prior to shut-down, in mine, mill or sections thereof producing lead or zinc ores? (1) 30 (2) _____

Number so employed on January 1, 1957? (1) 30 (2) _____

Number so employed on October 1, 1957? (1) None (2) _____

Remarks Shannon is primarily Copper but has some Pb Zn also



Shannon Mining Co
Company 180 Boy 309
By: J. Faust Silver City
Signature n. me

Please fill in NOW, tear off, and mail to:

Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

Washington, D.C.
May 18, 1944

SUBJECT: Premiums...Jefferson Mines
Shannon Copper

Just to complete the record... although the recipients have probably notified you they have their premium notice by now...

Jefferson Mines, made Effective May 5th.

Shannon..... I am glad to say that, although the Copper Production Division did not like this case very much, a good lunch in the right place helped a lot and the notice has gone out for 10¢ effective May 1st. Brown now has the full 27¢, which is about all OPA will allow these days, and I hope he can get along with it... He had better make a better showing with his copper as soon as possible. Premiums are not paid for gold and silver production purposes where copper is as low as Brown's report last showed. It barely was within the minimum rule. If I was not so sorry at the bum deal Brown had in the past I should have been inclined to agree with the Government that the mine is not a real help to the war effort.

Bill Broadgate

15
15
18
18
14
13
10
3
3

Washington, D.C.
April 27, 1944

SUBJECT: Shannon Mine, R. L. Brown

I received the copy of the Brown letter with the tabulation of costs, and I was not very happy about it.

As far as I can make out, the net, even with the showing of reduced expenses, at the highest possible premium, would only be 19¢.

The copper content of the ore has dropped to such a point that it is really below any amount the Copper Division is interested in under present conditions.

I went over and talked it over in detail, and asked them to give Brown the best break possible; but I am afraid there may be trouble with OPA.

You see, with the present labor conditions, the RR and Smelters will definitely be bottlenecks, and the time may be coming when, in spite of the necessity for all the domestic copper possible, it may not be desirable to permit shipping of lowgrade at the expense of crowding higher grade ores out of smelters and taking up transportation facilities.

~~MM~~ Unless there is a good chance of Brown increasing the grade of his ores, I can hardly blame Copper Production from hesitating to give him the premium, although I shall do all possible to help get it.

Bill Broadgate

SHANNON COPPER CO., Gleeson

September 21, 1942

Gleeson

George A. Ballam

Production Possibility Survey

The Copper Belle Mine owned by Shannon Copper Co., and formerly known as the Leonard Mine, is on the Charleston claim, one of 9 patented claims owned by the company in Gleeson. It was operated about the turn of the century by Mr. John Gleeson who informed me that in 5 years he shipped 4 to 7% copper ore to the Clifton smelter in the value of \$280,000. To obviate the necessity of long wagon hauls, attempts were made to operate two copper furnaces of 400 tons daily capacity on the heavy sulfide ore, but these proved unsuccessful. In 1907 the Shannon Copper Co. acquired the mine and that year produced 65,000 pounds of Cu., 21,000 ozs. Ag. and 307 ozs. Au. Between 1911 and 1922, 305,000 tons of ore of high sulphur content were shipped to the Clifton smelter.

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Cost of making workings accessible by unwatering, together with unknown condition of drifts owing to destruction of timber, appear to be the major obstacles to reopening this operation. Mr. Gleeson believes there is sufficient ore of high enough grade to make operation profitable at current price.

(Signed) George A. Ballam

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Shannon Mine

Date Aug. 15, 1952.

District Turquoise District, Cochise Co.

Engineer Axel L. Johnson

Subject: Mine Report

For details --- see report of May 14, 1952.

This mine was closed down on June 20, 1952. The reason given for the closing down of the mine was the drop in zinc and lead prices. According to one of the officials of the company, there ~~was~~ was, evidently, another reason also. The ore lenses, which they had expected to furnish a considerable tonnage of ore, proved to be rather shallow and superficial in character.

The Shannon Mining Co. spent somewhere in the neighborhood of \$85,000 to \$90,000 in repairing and retimbering the shaft, construction of a headframe, and on ore bins and mining equipment. The reopening of this mine will depend on the price of lead and zinc, and also upon the company's ability to find sufficient ore reserves for a profitable mining operation.

STATUS OF DORMANT MINES

MINE NAME: SHANNON

LOCATION: GLEESON, ARIZ.

OWNER AND/OR LEASEE: CARRIE M. BROWN

ADDRESS: Box 182 Tombstone, Ariz.

APPROXIMATE PRODUCTION (Year of 1945):

COPPER 50 000 Lbs. LEAD _____ Lbs.

ZINC _____ Lbs. (OTHER) _____

CHECK THE CHIEF CAUSE OF YOUR DISCONTINUED PRODUCTION:

- (A) Easily available ore worked out. ✓
- (B) Increased costs, but have quantity similar to past grade of ore.
- (C) Too close a margin to develop more ore.
- (D) _____

If you have ore ready to mine please give your estimate of the amount of metal (name each metal) that you could produce in one year (after allowing 60 days to get started) if there were premiums above present market prices. Name amount with a low premium, and amount at a high premium; such as:

Copper at 22½¢ plus 5¢ premium..... 1,000,000 Lbs.
 Copper at 22½¢ plus 10¢ premium..... 1,500,000 Lbs.

COPPER 22½ PLUS 5¢ 500 000 LBS
" " " 10¢ 2 000 000 "

If you do not have ore ready to mine please discuss the following:

- (A) Do you think a reasonable development program would produce a justified tonnage of commercial ore at above mine?

- (B) With a premium price (guaranteed for one year) could you carry out such a development program yourself? What premium?

LEAD-ZINC QUESTIONNAIRE

October 15 1957.

Do you approve of the Emergency Lead-Zinc Committee's seeking relief for the lead-zinc industry and has it your authorization to speak for you? yes

What Arizona Mines and Mills in the lead-zinc class do you control?

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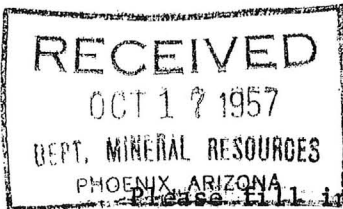
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Number so employed on January 1, 1957? (1) 30 (2) _____

Number so employed on October 1, 1957? (1) None (2) _____

Remarks Shannon is primarily Copper but has some Pb Zn also



Shannon Mining Co
Company PO Box 309
By: J. J. Faust Silver City
Signature N. Men

Now, tear off, and mail to:

Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

From Mining Journal 6-1-24

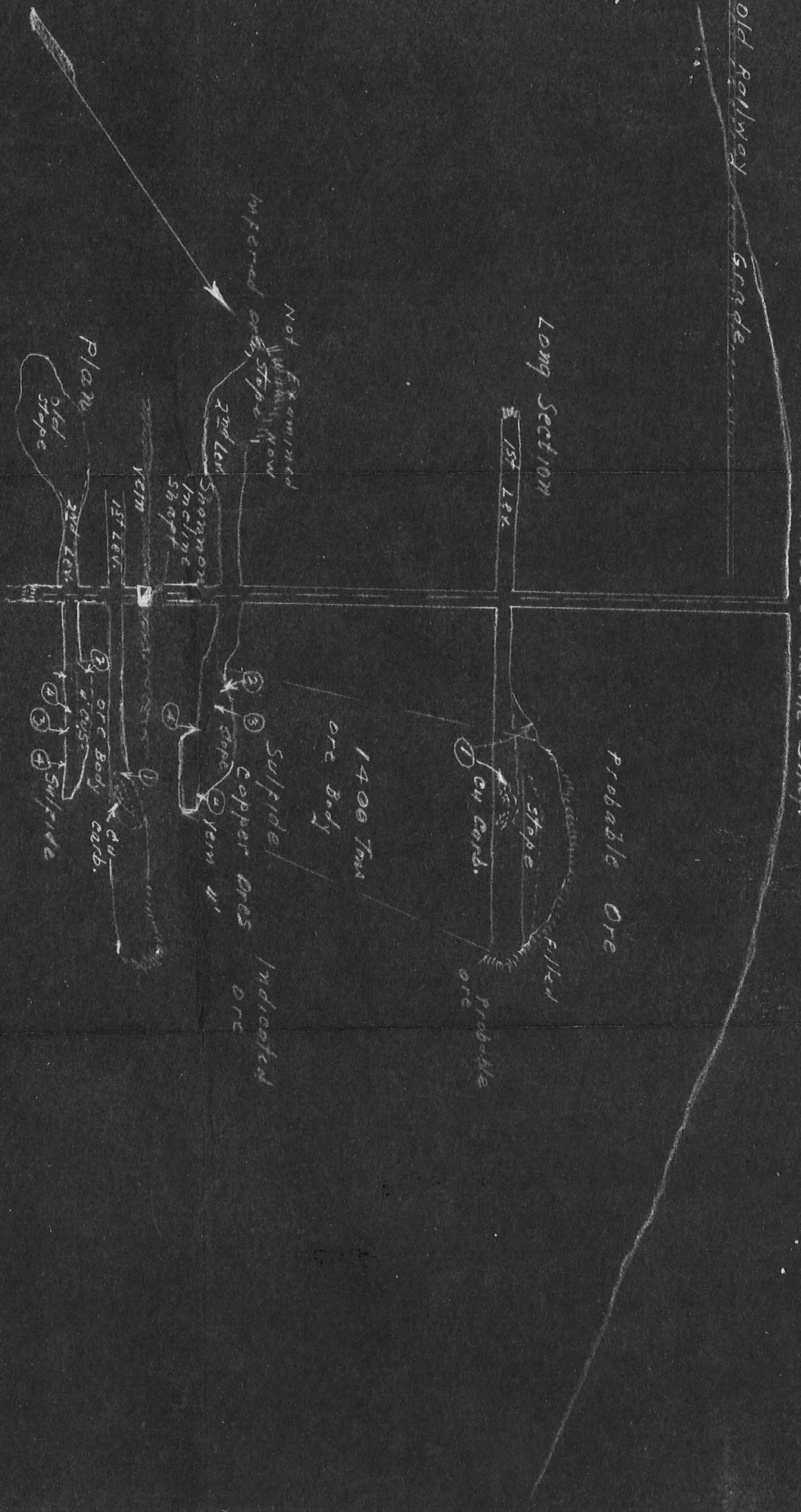
COCHISE



Old Railway Grade

Old Shannon Incline Shaft

Long Section



Assays

Sample No	av ag Cu%	5.5%	100 Lev. 606
1	.01	.3	
2	.005	.5	6.40
3	.07	12.7	4.68
4	.04	8.1	4.43
5	n/a		10.21

SW Vein
Sof in oxidized zone

18" cord. of copper

Sketch Map

SHANNON MINE Incline

Gleason, Cochise Co. Arizona

G.M. Brown Owner

Tombstone, ARIZ. NOV 10th 1943

Notes Of Field Engr. Globe.
Dept. Of Mineral Resources
Approx. Scale 1m To 50ft

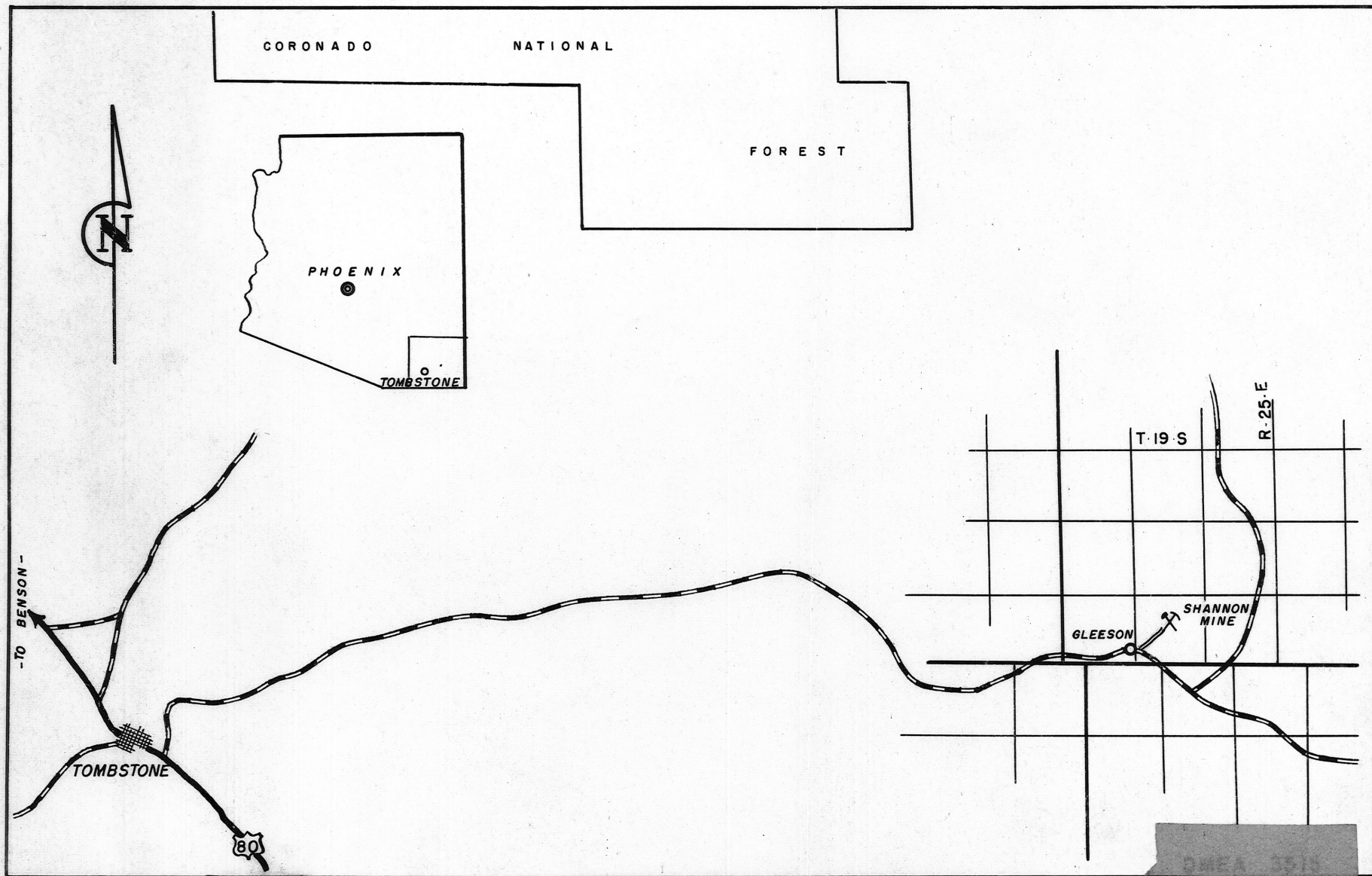


FIGURE 1 LOCATION MAP, SHANNON MINE, COCHISE CO. ARIZ.

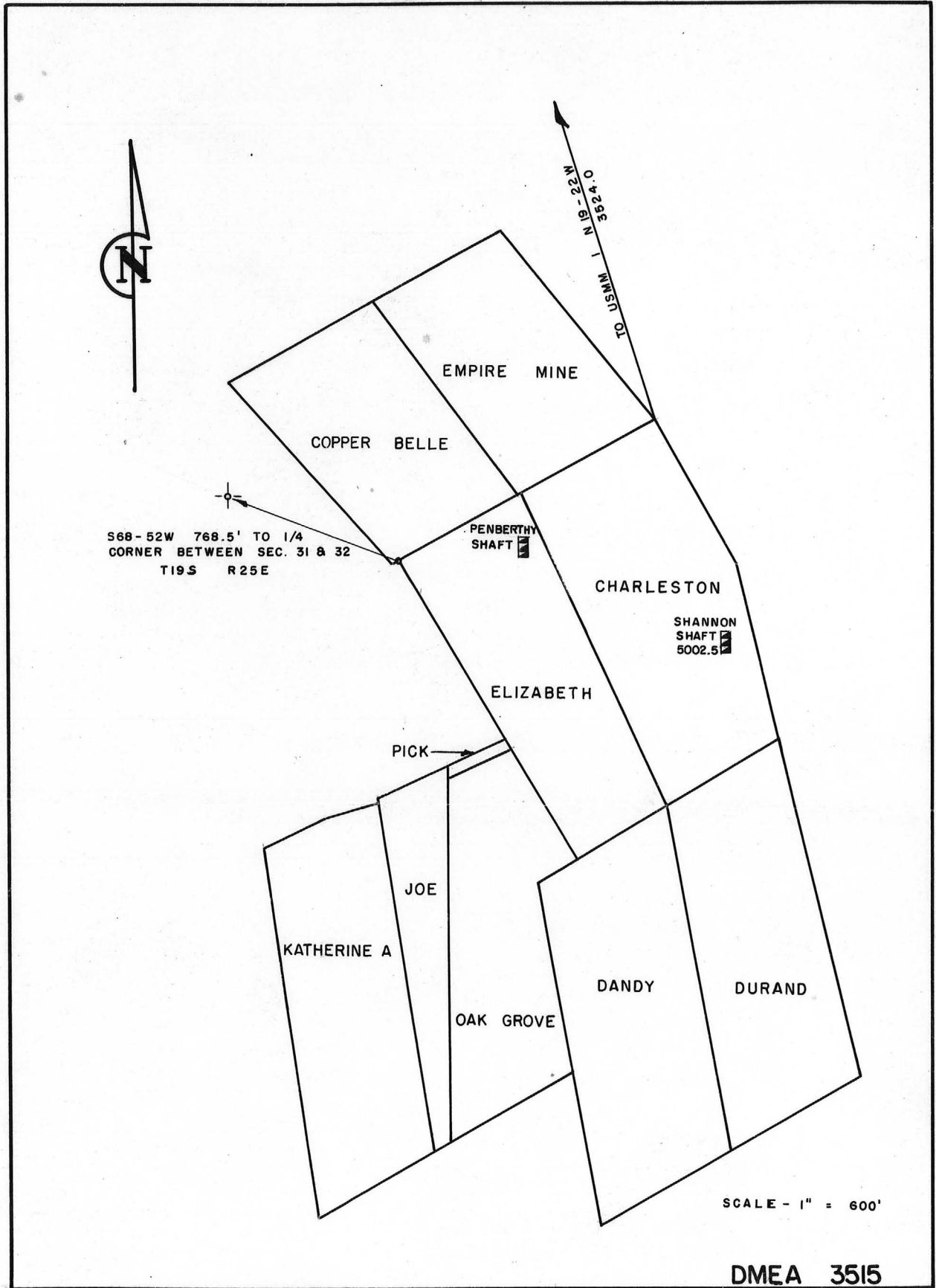


FIGURE 2 CLAIM MAP, SHANNON MINE, COCHISE COUNTY, ARIZ.

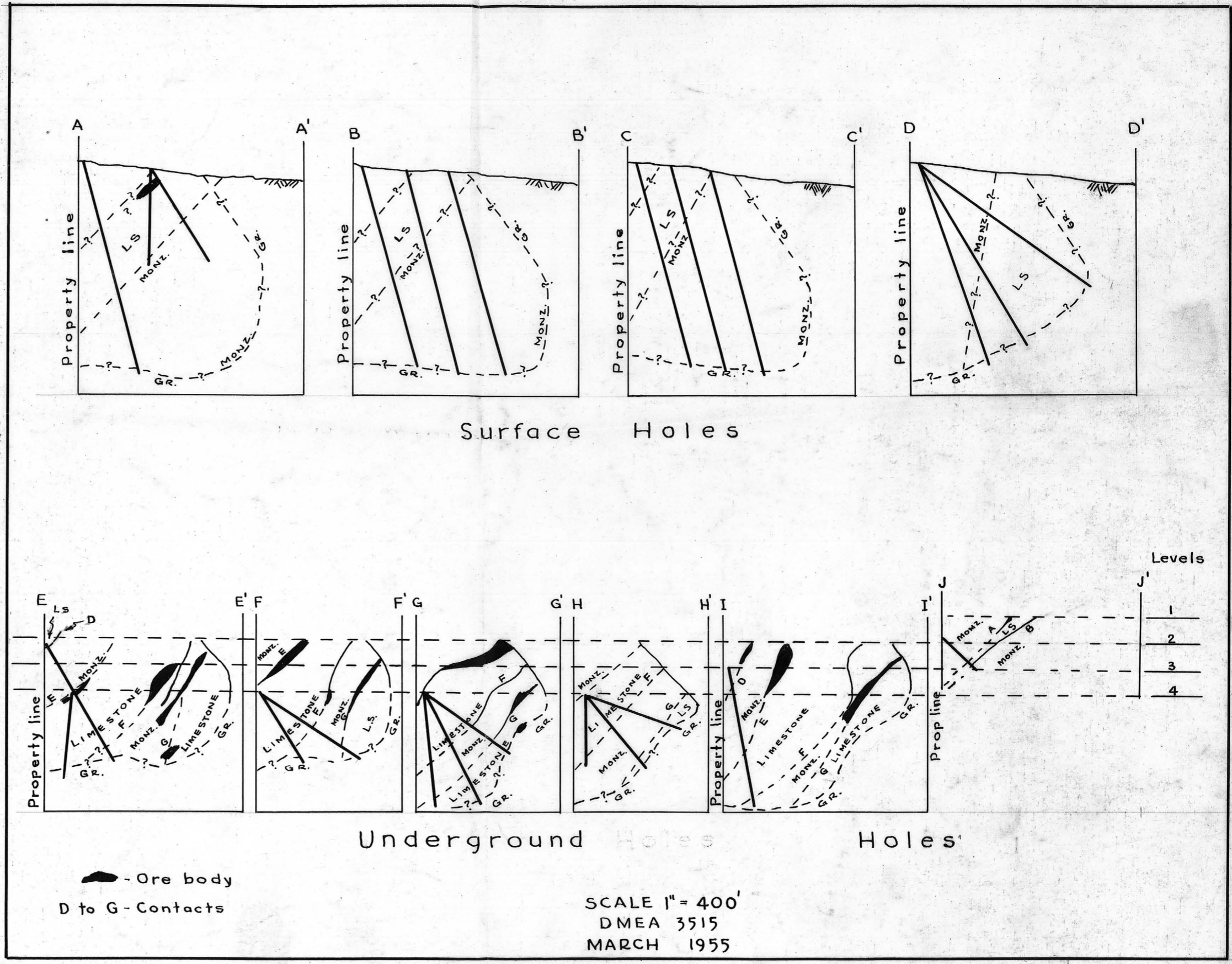


FIGURE 8 GENERALIZED SECTIONS OF PROPOSED DRILL HOLES
SHANNON MINE, COCHISE COUNTY, ARIZ.