



## **CONTACT INFORMATION**

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PRINTED: 05/29/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BLACK METAL COPPER MINE

ALTERNATE NAMES:

LA PAZ COUNTY MILS NUMBER: 753

LOCATION: TOWNSHIP 11 N RANGE 18 W SECTION 33 QUARTER NE  
LATITUDE: N 34DEG 15MIN 30SEC LONGITUDE: W 114DEG 07MIN 59SEC  
TOPO MAP NAME: GENE WASH - 7.5 MIN

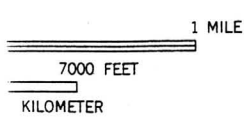
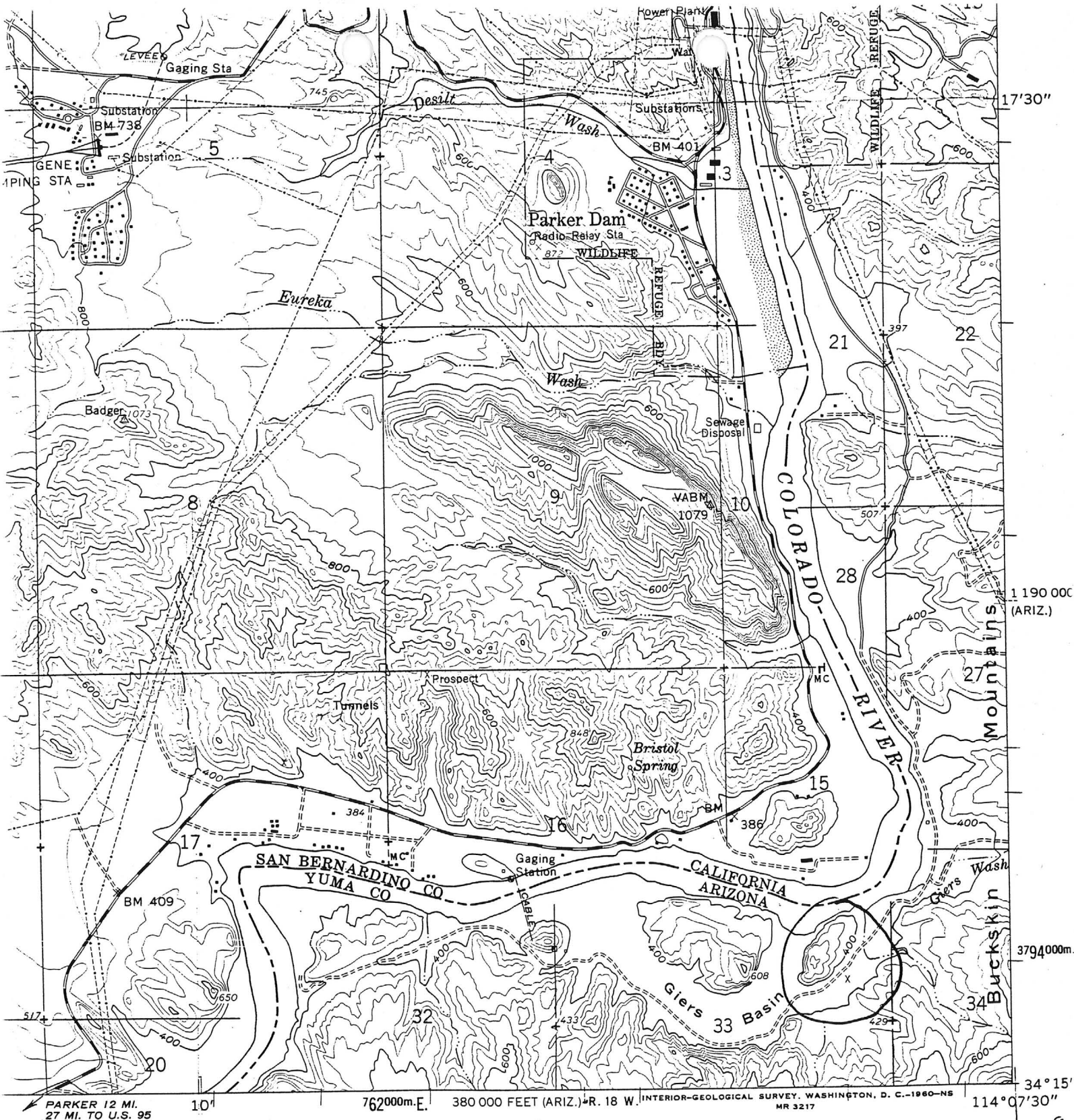
CURRENT STATUS: UNKNOWN

COMMODITY:

COPPER OXIDE  
GOLD LODE

BIBLIOGRAPHY:

ADMMR BLACK METAL COPPER FILE  
ADMMR "U" FILE, Au37



T11N, R18W, S. 33, NE 1/4

BLACK METAL



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Medium-duty ——— Light-duty ———  
Unimproved dirt - - - - -

MO

GENE WASH, CALIF.-ARIZ.

SW 1/4 PARKER DAM 15' QUADRANGLE  
N3415—W11407.5/7.5

1959

WASHINGTON 25, D. C.  
ON REQUEST

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

August 21, 1958

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

<u>Black Metal Copper (Yuma County)</u>	<u>copper, gold</u>
(Property)	(ore)

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

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

*Frank P. Knight*

FRANK P. KNIGHT,  
Director.

Enc: Mine Owner's Report



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

August 26, 1958

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

Black Metal Copper (Yuma County)	copper, gold
(Property)	(ore)

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

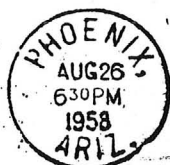
Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

*Frank P. Knight*

FRANK P. KNIGHT,  
Director.

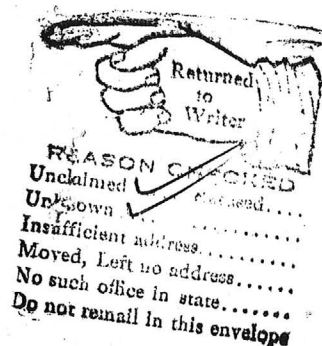
Enc: Mine Owner's Report

Owner: Howard Duffy & W. H. Bullinger, 110 W. Broadway, Glendale, Calif.	
NAME OF MINE: BLACK METAL (12 mi. N. Parker)	COUNTY: YUMA W DISTRICT: METALS: Cu Au
OPERATOR AND ADDRESS:	MINE STATUS
DATE:	DATE:
5/1/44 Owners: Howard Duffy W.H. Bullinger <del>Parker, Calif.</del> 12/44 Duffy, Box 88, Parker Dam, Calif. 1/46 <i>Cleator</i> ✓	Developing Idle



Mr. Howard Duffy  
Cleator  
Arizona

RCS



Mr. Howard Duffy  
Box 88  
Parker Dam, Calif.

*Cleator*

Kingman, 9/2/43.

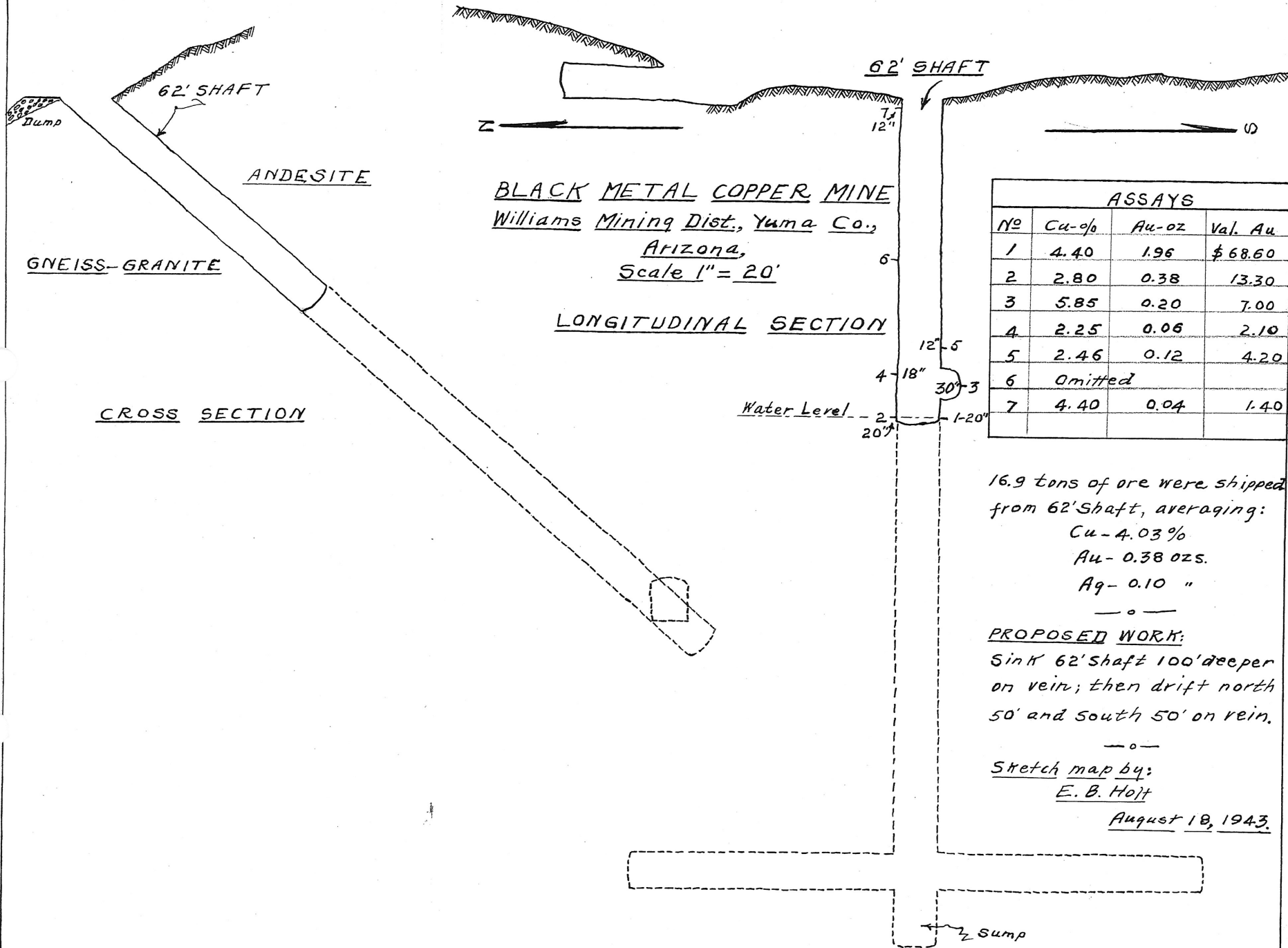
Dear George:-

Under separate cover, am  
mailing report on "Black Mt. /  
Copper Mine". In case Sam is  
absent, kindly have this report  
copied, and mail 2 copies, incl.  
photostats of assay map, to  
Howard Duff, Parker Dam,  
California - copy of map to me ✓  
Thanks. Elgin. 9-4 pp.



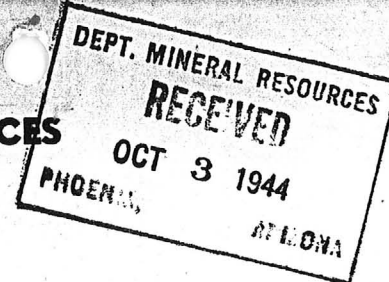
THIS SIDE OF CARD IS FOR ADDRESS

Mr. Geo. Ballam,  
413 Home Builders Bldg.,  
Phoenix,  
AZ.



# DEPARTMENT OF MINERAL RESOURCES

## REPORT TO OPA ON ACTIVE MINING PROJECT



Date.....Oct. 2, 1944  
 Name of Mine.....Black Metal Copper Mine  
 Owner or Operator.....Howard P. Duffy  
 Address.....Parker, Arizona  
 Mine Location.....Williams Mining Dist., Yuma County.

### Filing Information

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

### PRESENT OPERATIONS: (check X)

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

### PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months.....None  
 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	
			Requested	Recommended
Personal Cars				
Light or Service Trucks	<u>1</u>	<u>825 miles</u>	<u>55</u>	<u>EE</u>
Ore Hauling Trucks				
Compressors	<u>1 25 HP</u>	<u>130 hours</u>	<u>130</u>	<u>CMD</u>
Other Mine or Mill Eqpt.	<u>11 HP</u>	<u>130</u>	<u>30</u>	<u>MD</u>

### PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

.....Silicious gold ore and copper to be produced......

### REMARKS:

.....  
 .....  
 .....  
 .....

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By.....

**Elgin B. Holt, Field Engineer.**



September 4, 1943

Mr. Howard Duffy  
Parker Dam, Arizona

Dear Mr. Duffy:

At the request of Mr. Elgin B. Holt,  
Field Engineer for the Department of Mineral  
Resources, we are enclosing two copies of his  
report on the Black Metal Copper Mine and two  
copies of sketch map.

Yours very truly,

J. S. Coupal, Director

JSC:LP  
Enc.

August 4, 1943

P. O. Box 188,  
Kingman, Arizona

C  
O  
Mr. Howard Duffey,  
Parker Dam,  
California.

Dear Mr. Duffey:

P Attention is called to the letter Mr. Coupal wrote you under date of July 29th, in which he enclosed cc of a memorandum to me suggesting that I reach Parker on Saturday, August 7th and go with you to your mine the next day Sunday, August 8th. This will give us Monday, August 9th, in which to go over your application.

Y The object of this letter is to advise that the above arrangement is okay and that I will reach Parker next Saturday and would like to leave early Sunday morning with you to your property. Suggest you leave word with Mr. Moffett as to what hour you can pick me up Sunday morning. I think it would be all right to start about 7 A. M.

With kind personal regards, I am

Very sincerely yours,

Elgin B. Holt,  
Field Engineer

cc - J. S. Coupal  
Howard Duffey, Parker, Arizona.

September 2, 1943

Howard Duffy  
Black Metal Copper Mine  
RFC Lona

MEMORANDUM

TO: J. S. Coupal

FROM: Elgin B. Holt

I am herewith enclosing my report on the Black Metal Copper Mine, belonging to Howard Duffy, and on which he is applying for an RFC loan, as you know.

Kindly make several copies of this report including photostats of the assay map, and mail two copies of the completed report to Howard Duffy, and a photostatic copy of the map to me.

I intended to complete this report while I was in Los Angeles, inasmuch as Duffy promised to get the assay certificate to me early during my vacation, but he failed to do this and only got the said certificate to me the last day I was in L.A.

CONFIDENTIAL:

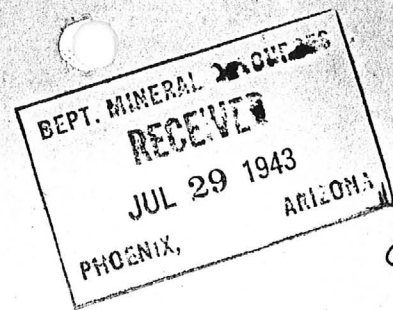
This property is not much of a mine, but there is a condition there that causes me to want this loan to be granted. It is this: I have always believed that when the veins of this area, the Empire Mine, the Sue and the Botzum properties, reach water level, a zone of secondary enrichment will be found. NOW THEN: Duffy's mine has already reached the level of the Colorado River, as his mine is right on the bank of the river. Hence, a few feet sinking will tell the tale, and such information will be of great value in planning work in all the other mines of this general area. Harritt told me that his company, years ago, spent fortunes at the Empire mine trying to reach sulphide ores, but failed in this completely and now he only figures in "coyoting" out surface ores at the Empire with no hope at all of making a mine.

Hence, as Duffy's shaft has already reached the level of the Colorado River, and as the assay map shows the best values in the bottom of the shaft, I think we are justified in doing all we can to have this loan approved in order to prove the vital point outlined above. Otherwise, I would hardly be inclined to recommend this loan.

y 26, 1943

MEMORANDUM

To: J. S. Coupal  
From: Elgin B. Holt



Subject: Howard Duffey - Black Metal Mine - Parker Dam - Access Road

Attention is called to your memorandum of July 19, in which you enclose cc of letter to Duffey, advising him that due to a change in schedule I cannot be in Parker the first week in August, as you discussed with him; that you expect I will be in Parker on August 8 and 9th and at that time I will be available to assist him with his mine loan application and also the proposed access road he has applied for.

Also in the said memorandum you state I will attend meetings in the Kingman area the first week in August, and in the Parker area the second week, after which (on August 14th) I will start my vacation. This is all correct.

That after the Oatman meeting on Friday, August 6th, you suggest I go to Parker on Saturday and have Sunday and Monday there. During this time I could assist on the Access Road plan and on the Duffey application.

ACCESS ROAD

When I last saw Duffey he told me that engineers representing both the U. S. Bureau of Mines and the Grazing Service had already visited his property and had reported on the said access road, had recommended it and that the said access road had been approved. Now it seems to me whether this road project has been approved or not, it would be duplicating effort, on our part, for us to make a report on this project. However, I am willing to do so if it will do any good. Seems strange if this project has been approved, just why our efforts are needed in this matter.

RFC Mine Loan Application

Also, the last time I saw Duffey in Parker, he came to me with his loan application already made out, asking for a \$5000 development loan from RFC - not a preliminary development loan, but an outright development loan. He had been to me once or twice before, or at times when my schedule would not permit of me going to his property, at which times I had advised him how to make out the said application. But the last time, mentioned above, I checked over the application, and while it was not drawn in the most proper manner, it was at least understandable; and I told him to send it in; and that it would then be up to RFC to send an engineer and not up to us.

Whether Duffey sent this application in or now I do not know. I told him all along, however, it would be better for him to employ an engineer in order to get his maps and application up in good ~~shape~~ shape; and he asked if he could hire me to do this work. I told him I could not hire out my services, as long as I was on the job, but whatever work I did would be free of charge; but that as we are scheduled in such a manner I would not have time to do the whole job, and could only



act for him in a consulting capacity. Or in other words, I could not possibly do the whole job for him, unless I could get a full week off in which to do it; and that I did not think that could be arranged.

That is pretty much the history of the case.

Now then, Sam, I want to do all I can for Duffey, as he is a likeable fellow and a hustler. But from the poor manner in which he got up his application for the said loan, I would say he is almost helpless in this matter, unless I undertook to do the whole job - sampling the mine, making the assay map, drawing up his entire application; all of which will take a week, with no week to spare at any time, as far as I can see.

Nowhere is what I am willing to do:

Reach Parker Saturday afternoon, August 7th.

Go with Duffey to the mine the morning of Sunday, August 8th, provided he has ways and means of taking me to the mine, either by car, truck or on horseback. I think he told me the other engineers, representing the U. S. Bureau of Mines and the Grazing Service had to walk - that the distance from Parker Dam to the mine is either 2 or 3 miles, making either a four or six miles hike; which is out of the question in the month of August. I would not attempt it and I would not ask anyone else to do so. So that is absolutely out.

Monday, August 9th, I will give the better part of this day to his assistance, on the road project and the application, with the understanding that we finish any work in his behalf, that day, Monday, as that will be all the time I can devote to his assistance, until after I finish my vacation. You see, my time will be taken up each and every day of the week starting Monday, August 9th, except Monday, the 9th, as I will have to visit Bouse, Quartzite, Salome and Aguila. Then start on my vacation from Salome. So if there is anything else to be done, it will just have to wait until my vacation is over.

I am writing you fully about this, so, if necessary, you will have ~~en~~ time to communicate with Duffey before answering. All in all, the situation simmers down to this:

I am willing to visit his property on Sunday, August 8th, and do what I can for him on August 9th, short of making a complete engineers reports, including assay maps, etc., and drawing up his application. If you want me to do the whole job for Duffey, fine and dandy; but if so, I suggest that we wait until September, during which month we will see what can be done. But even then I do not think we can spare a week, and keep up with the new schedule.

I will await your reply before writing to Duffey.

Confidential: From Duffey's own statement, I do not think he can qualify for an RFC loan, as he told me that he had dug out a lens of copper ore, of shipping grade, and intimated he wanted money to hunt for more ore. Do not think he has much left to sample.

Elgin B. Holt.

*Elgin*

July 29, 1943

Mr. Howard Duffey  
Black Metal Mine  
Parker Dam, California

Dear Mr. Duffey:

I am enclosing a copy of a memo I have just written  
Elgin B. Holt, regarding assisting you on the loan  
application for the Black Metal Mine.

You will note that he will also assist the Parker  
group in presenting the access road application from  
your mine south to Parker. I feel sure that you can  
assist Holt in the transportation to the mine, and  
believe that by now the access road should be finished,  
making it possible to drive direct to the property.

Very truly yours

J. S. Coupal, Director

JSC:ach  
encl.  
22-E.B.Holt



MEMORANDUM

July 14, 1943

To: Elgin B. Holt  
From: J. S. Coupal  
Subject: Howard Duffey - Black Metal Mine

In reply to your memo of July 26th I note your many questions and will try to reply to same. I am sending a copy of this memo to Howard Duffey so that he may know just what is expected.

Access Road - The Parker group desires to make application for an access road from the access road to the Black Metal Mine south to Parker. In order to properly make this application, a rough sketch showing the properties that would be served, and a brief description of the properties and their potential production, should accompany the application. Mr. Duffey has offered to help you on this work and give you all of the information he has available. You could consult with Lee Perrin, Harriett, Stephan, and Clara Botzum, as all of these properties might be served by the proposed road. Clara Botzum has just written that she might leave for Los Angeles about August 1st, so she may not be available when you get to that area.

RFC Application - I agree with Mr. Duffey to assign you the job of assisting him in preparing a mine loan application, irrespective of what steps have been taken to date. Mr. Duffey had a rough sketch of the workings, which seemed to me to be insufficient, and a Mr. Kelly, who was at work on the access road, agreed to help him in making a more complete sketch to accompany his application.

I believe the best plan would be for you to arrive in Parker on Saturday - August 7th - and I am suggesting to Duffey that he meet you then and arrange for transportation to the mine for you. If horses are necessary, I believe he can furnish them. The access road should be completed at that time so that you can make the mine by car. As the loan he requires will be a development loan, it will be necessary for him to take a number of samples of the present ore showings and locate them on the sketch map of the workings so that the application will show just what conditions exist. After the application is made, the RFC will undoubtedly send an engineer out to make his report. I believe that with your experience you can assist Duffey in preparing his application, or at least advise him as to what should be done.

I fully realize the heat in Parker at this time, and can see no reason for a lot of unnecessary traveling in the Parker district. With Sunday and Monday allotted to preparing the access road sketch and assisting on the Duffey loan application, it should not be any great hardship, as a good part of it will be office work.

J. S. C.

JSC:ach  
cc-Howard Duffey

July 19, 1943

Mr. Howard Duffey  
Black Metal Mine  
Parker Dam, California

Dear Mr. Duffey:

Due to a change in the schedule of the work of the field engineers, it will be impossible for Mr. Holt to be in Parker the first week in August, as discussed with you.

I expect Mr. Holt will be in Parker on the 8th and 9th of August and at that time will be available to assist you regarding the mine loan application and also the proposed access road from the Dam itself to Parker.

With best wishes and kindest personal regards.

Very truly yours

J. E. Coupal, Director

JSC:ach  
cc-Elgin B. Holt

May 8, 1943

MEMORANDUM

Black Metal Mine  
Parker District

TO: Elgin B. Holt

FROM: J. S. Coupal

I have had note that Bulinger and Duffy have made application for an access road at a property located four miles south of the Parker Dam on the Arizona side and within one-half mile of the river.

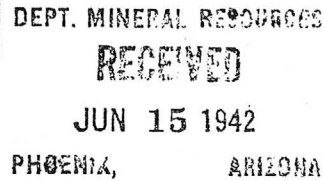
I do not recall any mention of this and would like to know something about the property which you can find out the next time you are in that district.

SURVEY OF OPERATING MINES

June 8, 1942

By: Elgin B. Holt

BLACK METAL COPPER MINE



Black Metal Copper Mine, owned by:  
Howard Duffy, &  
W. H. Bullinger,

Parker Dam, California. (address).

+ A gold-copper property consisting of 17 claims, located in Yuma County  $1\frac{1}{2}$  miles south of the mouth of Williams River. Owners have contracted to build  $3\frac{1}{2}$  miles of road to Parker Dam, which is in a war zone and can be crossed only by special permit.

1941 & 1942 production: none.

Duffy says he is now doing exploratory work on veins from 46 inches to 18 feet wide and that he now has car of ore on dump assaying 8.9% copper and 2.25 ounces ~~g~~ gold per ton.

+ Says his main problem is the need of a mine to market road; that while the road he is now building to Parker Dam will meet temporary needs, in the end he will have to build or have built a road 14 miles in length, on the Arizona side of the Colorado River, to connect with a road now leading from Parker to the Sue mine, which new road will cost around \$5,000; that at present he cannot cross workmen over Parker Dam without a great deal of trouble in getting permits for them. Also that when he succeeds in arranging road transportation, he has an air compressor, hoist and other mining machinery purchased ready to move to property in order to prosecute the work in a vigorous manner.

Two men now employed.

*E.B.H.*

Elgin B. Holt.



EMPIRE ASSAY OFFICE  
PARKER ARIZONA.

DATE--Aug. 24th-1943

Name	Mark	Am. ozs	Cu. %	Val. Au
Howard Duffy.	#1	1.96	4.40	\$ 68.60
" "	#2	0.38	2.80	\$ 13.30
" "	#3	0.20	5.85	\$ 7.00
" "	#4	0.06	2.25	\$ 2.10
" "	#5	0.12	2.46	\$ 4.20
" "	#6	0.04	4.40	\$ 1.40

Gold at \$ 35.00 per Oz.  
No other metal values given.

*W.W. Harritt*  
W.W. Harritt

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine BLACK METAL COPPER MINE

Date September 2, 1943

District Williams, Yuma Co., Ariz.

Engineer Elgin B. Heath

Subject:

R E P O R T

OWNERS: Howard Duffy & W. H. Bullinger, Parker Dam, Arizona.

LESSEE: Howard Duffy, Parker Dam, California. Duffy has 5 years lease on Bullinger's interest.

METALS: Copper and gold.

AREA & LOCATION:

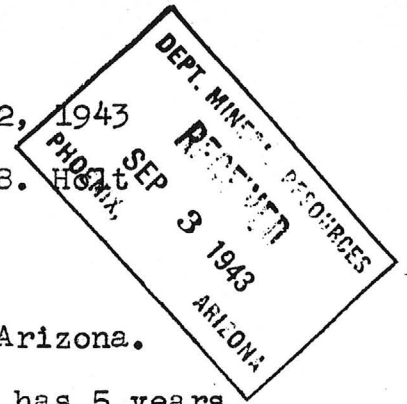
This property, consisting of one unpatented mining claim on which the annual assessment work has either been performed or intention to hold has been duly filed, is located in the Williams Mining District, Yuma County, Arizona, 3.5 miles south of Parker Dam and 2,000 feet east of the Colorado River.

EXAMINATION:

On August 8, 1943, I visited the Black Metal Copper Mine, in company with Howard Duffy, who is planning to apply for a development loan from RFC with which to carry out certain new underground work at property.

GEOLOGY - VEIN:

The vein may be described as a contact fissure occurring between Andesite on the hanging wall side and gneissoid-granite on the foot wall side. Strike of vein is nearly due north and its dip is 41 degrees east. Three intersecting fractures, carrying copper at surface, are situated in the Andesite formation around 100 feet southeast of main shaft. These veinlets are parallel and near together; and strike from NE to SW, dipping 45 degrees southeast. They intersect the main vein at points south of the main shaft, and at these points of intersection ore shoot may occur. The





main vein mentioned is composed of brecciated country rocks, caused by extensive shearing action along the contact between the formations above described. The vein filling has a width of from 6 to 8 feet; but commercial copper-gold ore is found in an irregular pay-streak from 6 inches to 20 inches in width.

MINE WORKINGS:

Mr. Duffy has sunk an inclined shaft on slope of vein to a depth of 62 feet where water was encountered at a point about even with the normal water level of the Colorado River, which, as stated, is situated about 2,000 feet westerly from property.

PRODUCTION:

In sinking the said ~~said~~ shaft, 16.9 tons of oxidized ore were produced and shipped <sup>to the Hayden Smelter</sup> from the pay-streak referred to; said ore averaging as follows: Copper 4.03%, gold 0.38 ounces per ton and silver 0.10 ounces per ton.

CHARACTER OF ORE:

All ore found in the said shaft is oxidized material, consisting of Malachite, Azurite and Chrysocolla. Due to weathering and leaching action in the vein above water level, which as stated stands at the bottom of the shaft, it is believed there has been a migration of copper values downward. Hence, there is a splendid chance by sinking the shaft deeper to pick up a zone of secondarily enriched copper sulphide ores, consisting of chalcocite, bornite, etc. Again, as evidently the permanent water level in the mine has already been reached, it is further believed that if the shaft, now 62 feet deep, could be sunk another 100 feet, such work will either result in uncovering an important deposit of enriched copper sulphide ores, or thereby the mine will be proven valueless.

ASSAY MAP:

Attached hereto is an assay map showing the results from 6 samples, cut by Howard Duffy, according to my directions; said results being set forth in the following table:

<u>No.</u>	<u>Cu-%</u>	<u>Au-Ozs</u>	<u>Au-Value</u>	<u>Width Sampled</u>
1.	4.40	1.96	\$68.60	20"
2.	2.80	0.38	13.30	20"
3.	5.85	0.20	7.00	30"
4.	2.25	0.06	2.10	18"
5.	2.46	0.12	4.20	12"
6.	Omitted			
7.	4.40	0.04	1.40	12"

NOTE: The above assays were made by the EMPIRE ASSAY OFFICE, Parker, Arizona; and a copy of the corresponding assay certificate is attached hereto.

CONCLUSION:

In the event further work should be carried out at this mine, I recommend that the 62-foot shaft be sunk 100 feet deeper following the vein on its slope. Also that drifts be run on vein from a point near the bottom of shaft, leaving sump room, north 50 feet and south 50 feet. That should such work result in uncovering commercial ore in quantity, a broad plan of development work should then be carried out in the mine with a view to blocking out important reserves of shipping and milling ore.

*Elgin B. Holt.*

Elgin B. Holt,  
Field Engineer.