



CONTACT INFORMATION

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06/24/91

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLACK OXIDE

ALTERNATE NAMES:

GILA COUNTY MILS NUMBER: 173B

LOCATION: TOWNSHIP 1 N RANGE 15.5E SECTION 14 QUARTER SW
LATITUDE: N 33DEG 25MIN 37SEC LONGITUDE: W 110DEG 45MIN 15SEC
TOPO MAP NAME: GLOBE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER
SILVER

BIBLIOGRAPHY:

BLM MINING DISTRICT SHEET 171
ADMMR BLACK OXIDE FILE
PETERSON N P GEOL & ORE DEPOSITS OF THE GLOBE
MIAMI DIST USGS PP 342 1962 P 112, BUCKEYE
BLM MINERAL SURVEY MS 2297
RANSOME F L GEOL. OF THE GLOBE COPPER DIST
USGS PP 12 1903 P 153 SEE BUCKEYE MINE
ALSO IN NW4 OF SEC.

See I.C. 7990
pp 71-74

See USGS P.P. #12
Page 15.

(Bulky Mine)
USGS P.P. #342
Page 11

NAME OF MINE: SUPERIOR AND BOSTON		COUNTY: GILA E	
OPERATOR AND ADDRESS:		DISTRICT:	
DATE:		METALS: MN	
5/1/44	J. W. Walker Dominion Hotel Globe, Arizona	5/1/44	Idle
SUPERIOR & BOSTON		METALS: MN	
OPERATOR AND ADDRESS:		MINE STATUS	
DATE:		DATE:	
5/1/44	Keller & Muller, Lessees Globe, Arizona	5/1/44	Developing and milling
	Owner: E.A. Borge, 212 N. 18th St., Globe	12/44	Idle
		1/45	Shipping
		4/46	Idle
6/46	E.A. Borge, 212 N.1st St., Globe	6/46	Shipping
NAME OF MINE: BLACK OXIDE (Same as Boston - Superior)		COUNTY: GILA	
OPERATOR AND ADDRESS:		DISTRICT:	
DATE:		METALS: MN	
5/1/44	E. A. Borge, 212 N. 18th St. Globe owner (owner)	5/1/44	Shipping and Developing
8/44	Leased: Rudy Keller, Box 54 Claypool, & Chris Mueller, Globe	8/44	Mining manganese
		12/44	Shipping

Cu
Gila 4 - 4 T 1 N, R 16 E

Eric A. Borge, 212 N. 1st St., Globe '45

See: Superior-Boston Copper Co (file) Gila Co.
Arizona Commercial Mine (file)

BLACK OXIDE
Gila County

9-44

12-7-42

COPPER

E. A. Borge
121 N. 18th St.
Globe, Ariz.

\$5,000 R.F.C. loan
Eng. report by A. Macfarlane

1954 *Accessed*

BORGE, E. A.
212 N. First St.
Globe, Ariz. 12-7-42

See BLACK OXIDE CLAIM
Re - Field Engineer's Report

See BLACK OXIDE
Re - "C" loan application 12-8-42

See BOSTON & SUPERIOR - re gas application 1-31-45
" " " " 4-27-45

ANNUAL REPORT OF THE SUPERIOR AND BOSTON

We are just in receipt of the annual report of the Superior & Boston Copper Company, which will probably prove of interest to a number of our readers, and we are herewith submitting extracts therefrom:

The mineral lands controlled by the Superior & Boston Copper Company and upon which mining operations have been conducted since its organization, comprise in all 45 mining claims, or approximately 800 acres, located in the Globe Mining District, Gila County, Arizona, which, with the advent of the Arizona Commercial railroad, recently constructed, give the property direct rail connections with the Old Dominion smelter.

In October of this year, final payments were made on bonds covering 22 of the claims, and deeds conveying them to the company have been received. The remaining claims comprising the group are still held under bond, the balance of the purchase price being \$256,000, of which \$100,000 is payable May 3, 1908, and \$156,000 Jan. 20, 1909.

Active mining operations were begun about Jan. 1 of the present year, and between that date and Dec. 1 a total of 2,763 feet of development work has been done which has been confined to the exploration and development of three (3) faults or veins, known to traverse Superior & Boston territory, namely, the Black Hawk, Buckeye, and Limestone (so-called).

On the Great Eastern claim, which carries the extension of the Black Hawk fault (and immediately adjoins the Black Hawk mine of the Arizona Commercial Copper Company), a single compartment vertical shaft has been sunk 425 feet, which is equivalent to the 500-foot level of the Black Hawk shaft. At this point a twenty-four (24) foot station was cut, and a crosscut has been driven north two hundred (200) feet to intercept the vein, and at the angle the vein is dipping, it is estimated that the crosscut will have to be driven 215 feet further before the vein is reached, which should be about Feb. 1, 1908.

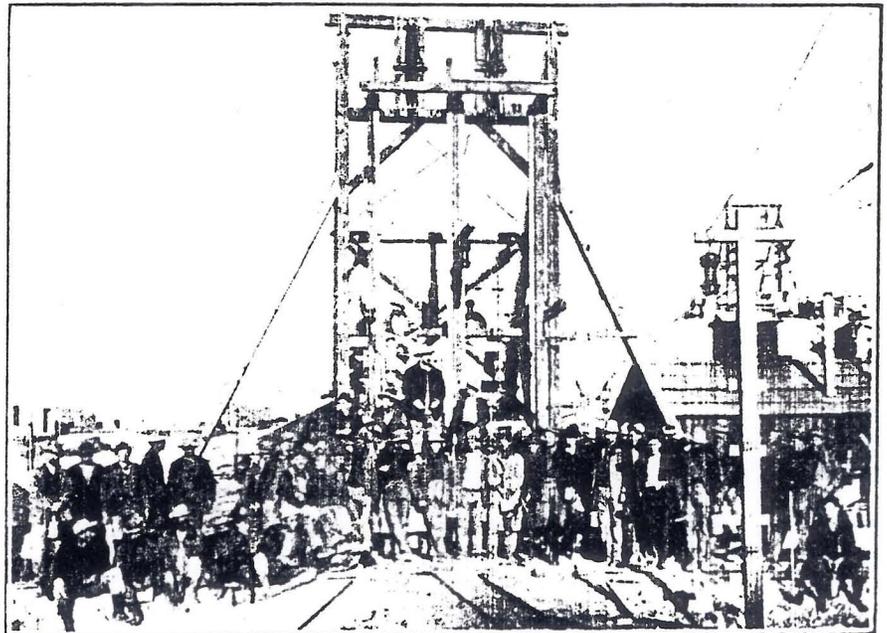
At this juncture we might state that at the time of the organization of this company, our neighbor, the Arizona Commercial, had developed good commercial ore to within a very few feet of the end line of our Great Eastern claim, and that recently, with their consent, we have been permitted to drive the east drift at their 500-foot level, through the line and into Great Eastern territory, with the result that for a distance of eighty (80) feet of

drifting, we have the same character of ore and vein matter as is in evidence on their ground. There is sufficient warrant for the belief, therefore, that when the crosscut reaches the vein, we will be in a position to begin and maintain shipments of ore from this point. As a test, a small shipment of ore taken from the 500-foot on Great Eastern ground was sent to the smelter, returning 6.70 per cent. copper, and 3.66 ounces silver. This ore was taken from the foot wall side of the vein, and was hardly up to the average. When the vein is encountered in the crosscut it is the intention to immediately drift west to

connect with the Black Hawk 500-foot level, thus providing air for both mines. In the meantime, the Black Hawk shaft is being sunk to the 600-foot level, which will be of advantage to our company in that it will demonstrate the character of ground we may expect to encounter at our next level, and it is the well-founded belief of the Arizona Commercial management that sulphide ore will be encountered in its Black Hawk shaft at the 600-foot level, or at no great depth below.

On the Black Oxide claim a crosscut tunnel was extended one hundred and ninety (190) feet, at which point

(Continued on following page.)



MINERS GOING ON SHIFT—MOHAWK MINE, GOLDFIELD, NEV.

BUTTE'S DECEMBER COPPER OUTPUT

Owing to the closing down of the Washoe smelter at Anaconda, and the consequent suspension of operations at all of the Amalgamated Copper Company's mines in the Butte District, with the exception of those known as the Boston and Montana, the copper

output for December was materially smaller than for any month of the year.

The output for the month of December will be 5,845,400 pounds against 8,310,550 pounds for November, and 9,775,225 pounds for October. The Amalgamated and North Butte properties were operated for only six days in December.

The output in detail was as follows:

	Tons of Ore.	Lbs. of Copper to ton.	Total lbs. Copper.
Boston-Montana	48,000	60	2,880,000
ANACONDA	9,000	68	612,000
Butte-Boston	1,200	61	73,200
Washoe	900	58	52,200
North Butte.....	2,400	75	180,000
W. A. Clark.....	26,000	61	1,586,000
Pittsburg-Mont.	6,000	70	420,000
Miscellaneous	600	70	42,000
Total	94,100	66.5	5,845,400

it intersected the Buckeye fault, where the tunnel was turned, and drifting west along the course of the vein has now progressed with most gratifying results. At the point where the vein was crosscut it was found to be twenty-seven (27) feet wide, with well defined foot and hanging walls, and as far as developed on our ground it has proven to be thoroughly mineralized. A stope one hundred (100) feet in length has been timbered, and everything is in readiness to begin mining the ore at this point. Assays from samples taken from day to day have varied between 4 and 15 per cent. copper, in association with from 60 to 70 per cent. silica, thus making the ore a desirable smelting ore. The vein outcrops on the apex of the Black Oxide hill four hundred and eighty (480) feet above the roof of the tunnel, where, by means of trenches and open cuts, it is found to be similarly well mineralized and well charged with copper contents: so that, at and above our tunnel level, we already have something real and tangible in the shape of an ore reserve. On this same vein, at a distance of only fifty (50) feet from the end line of our Ida claim, the Buckeye shaft of the Old Dominion has attained a depth of about three hundred and fifty (350) feet, and is still in the oxidized zone. The opinion of mining men experienced in the district is that this shaft, or drifts therefrom, will encounter sulphide ore within the next three hundred (300) feet. The proximity of this work to Superior & Boston territory, and the results accomplished by it will serve to determine for our company, in advance, the character and value of this vein at lower levels. On the True Blue claim, owned by the Old Dominion, which immediately adjoins our Black Oxide claim, and about fifty (50) feet from our line, prospectors operating under a lease have sunk a shaft one hundred (100) feet deep and have taken out a very good grade of ore. Reference to operations on the lands owned by adjoining companies is made, as evidencing the persistency of the veins which traverse Superior & Boston territory, and the occurrence of ore therein.

A single compartment vertical shaft has been sunk to a depth of three hundred and forty (340) feet on the Limestone claim, stations cut, and five hundred and seventeen (517) feet of crosscuts and levels opened. The vein was first encountered in the shaft at a depth of about seventy (70) feet, and was less than two (2) feet wide, but was well charged with copper, averaging about seven per cent. Conforming to the characteristics of other

depth and at the second level, two hundred and twenty (220) feet down, it has a varying width of from three (3) to seven (7) feet.

"Drifting at the third level is now in progress, and the results accomplished will determine whether it will be advisable to sink the present shaft deeper, or tap this vein at a greater depth by crosscuts from the proposed three-compartment shaft to be sunk on the Red Oxide claim, to open the Iron King, Black Oxide, and other veins traversing this portion of Superior & Boston territory.

"In prosecuting the development work in hand, no special effort has been made to find ore, and what we have encountered has come in in the regular and necessary course of the work, and we have to-day, on the Limestone and Black Oxide dumps alone, fully fifteen hundred (1500) tons of ore that will run from four to ten per cent. copper, saying nothing of the ores of lower grades, all of which has been taken from sinking and drifting alone, no stoping having been done up to the present time. This ore carries silver values and an excess of iron which will provide a substantial revenue aside from that received for the copper."

The balance sheet follows:

Assets:	
Real estate—	
* Mining claims ..	\$222,200.00
Buildings ..	8,357.84
	\$230,557.84
Machinery and equipment	12,991.00
Supplies on hand at mine	1,914.44
Teams, etc.	1,125.00
Accounts receivable....	126.82
Cash	91,296.32
Patent expense account ..	306.00
Development account....	65,060.78
* This item comprises cash payments of \$72,200 and 15,000 shares, full paid, of the stock of the company, being part of the consideration for the mining claims controlled by the company.	
Liabilities:	
Capital stock—	
15,000 shares at \$10.00	\$150,000
135,000 shares at \$2. ..	\$270,000
Less not paid Sept. 30, '07.	23,987
	246,013
Accounts payable.....	7,365.20
	\$403,378.20

CONDITIONS IN UTAH

The smelter situation has reached an acute stage, and is now engrossing the attention of the principal operators of the State.

Advices from Salt Lake state that David Keith and Thos. Kearns, of the Silver King Coalition Company, are back from New York. They admit that the mines of the company are likely to close, pending better prices for silver and lead.

Mr. Keith declares that either the proposed Heinze smelter or some other independent plant will be erected in this State. The producers will not stand for contracts now being forced by the American Company.

A plan is understood to be on foot for all of the lead and silver producers of this region to combine and build works of their own and relegate present custom works method to the rear.

The Tintic Mine Operators' Association will meet on Friday next to arrange a new wage scale for that camp. It will be a cut from present rates, but how much cannot be learned.

Samuel Newhouse is back from New York far from well. He declines to discuss metal, finances or anything else.

SHANNON COPPER CO.

The Shannon Copper Co. has plans prepared for the enlargement of the two old furnaces in its smelter whereby it will have a smelting capacity of 3,000,000 pounds of copper per month.

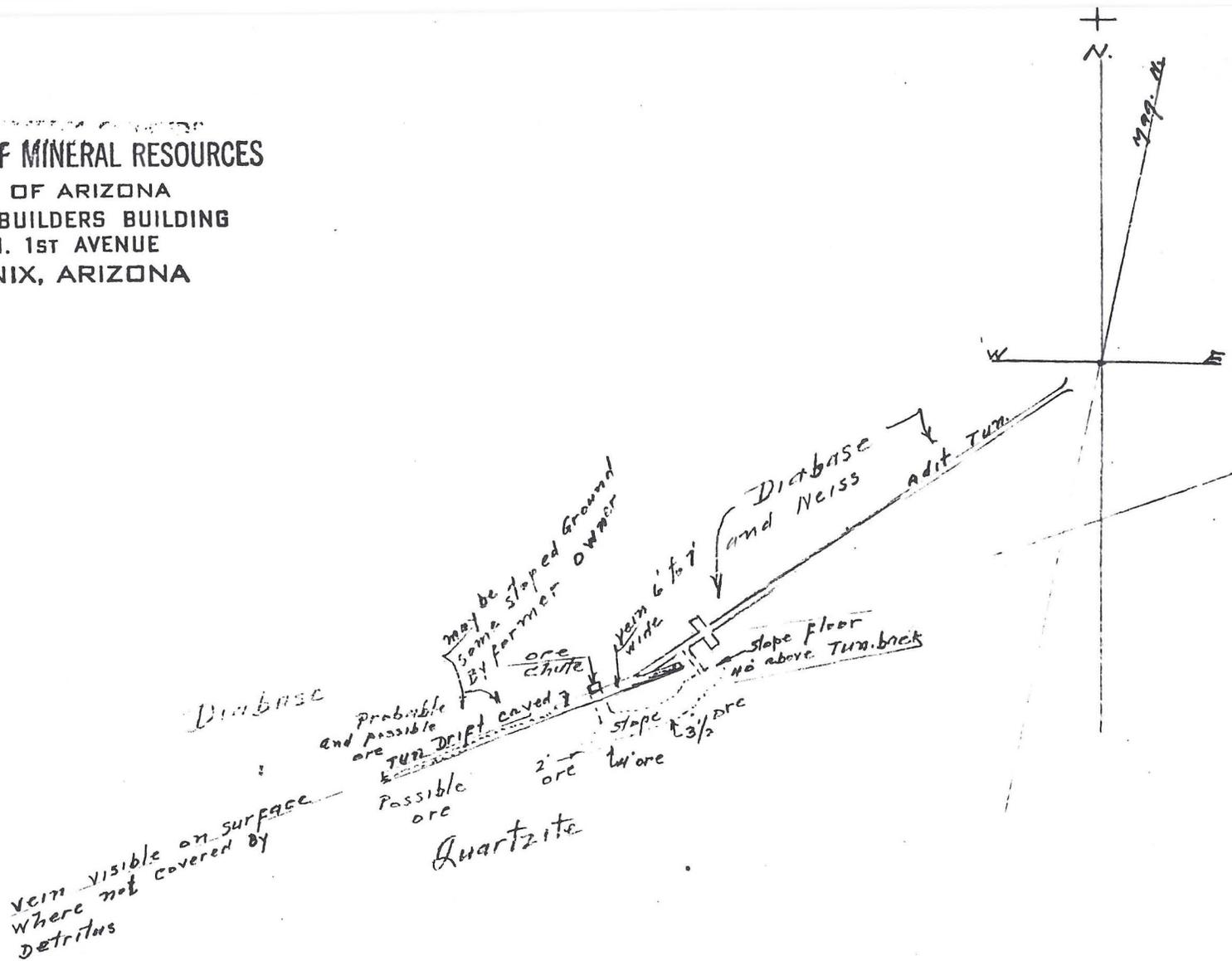
Its new 1,000-ton smelter is turning out copper at the rate of 1,250,000 pounds per month. This is the normal Shannon production.

It is planned to throw the two old furnaces into a single furnace after the same methods employed in the Washoe smelter. This will increase the capacity one-third, and when this work is completed the Shannon Copper Co. will be able not only to increase the output of its own ores, but to treat the product of the Arizona Commercial Copper Co. and the product of the New England & Clifton and other local properties which are in need of a custom smelter.

COBALT ORE SHIPMENTS

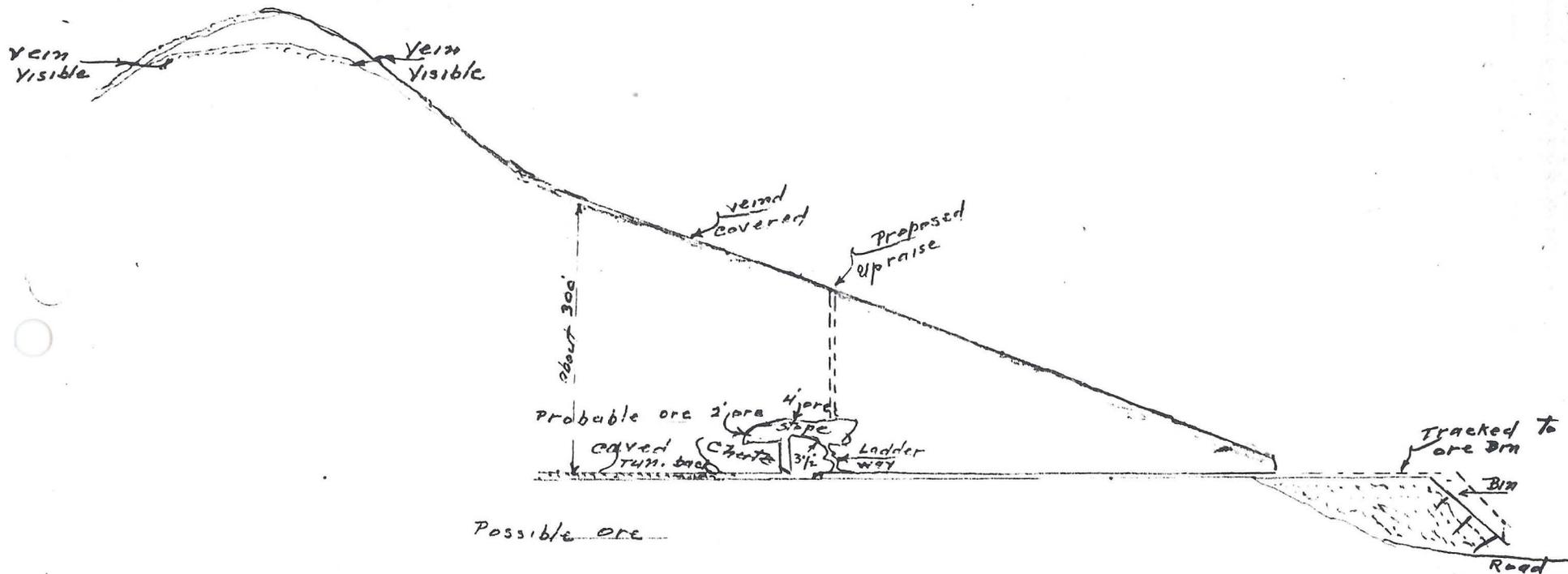
Shipments for week ending December 21st:			
Nipissing	2 cars	65 tons.	
Nova Scotia.....	3 "	90 "	
La Rose.....	1 "	22 "	
Tem. & H. Bay....	1 "	32 "	
Kerr Lake.....	1 "	26 "	
Total.....	8 cars	235 tons.	

DEPARTMENT OF MINERAL RESOURCES
 STATE OF ARIZONA
 413 HOME BUILDERS BUILDING
 128 N. 1st AVENUE
 PHOENIX, ARIZONA



IRON CAP
 GROUP

Sketch Plan of Black Oxide workings
 Copper Hill Dist. Globe, Arizona Scale 1" = 200'
 Notes of A. Macfarlane Dec. 7-1942
 From Stops. No above Tun. back, about 75 tons weekly product
 crew 5 men Average of ore per settlements 4 1/2% cu.
 Property of E.A. Borge Globe Ariz.



DEPARTMENT OF MINERAL RESOURCES
 STATE OF ARIZONA
 413 HOME BUILDERS BUILDING
 128 N. 1ST AVENUE
 PHOENIX, ARIZONA

Longitudinal Section of Black Oxide Workings
 Looking Northerly
 Scale 1" = 200'
 Notes of A. Macfarlane Globe Ariz. Dec. 7/142

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

~~December 10, 1957~~
January 30, 1958

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

BLACK OXIDE Manganese
(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.

RESOURCES

ds



Mr. Borge

REASON FOR RETURN
Unclaimed
Unknown
Insufficient address
Moved, Left no address
No such office in state
Do not remail in this envelope

Mr. E. A. Borge
212 North 1st Street
Globe, Arizona

Auth
exam

Mr. Borge

BLACK OXIDE CLAIM

-2-

Proposed Work: The owner, Mr. Borge, has filed application for a "C" loan of \$5,000, and has set forth in said application his reasons for said loan, his principal purpose to muck out the southwest adit tunnel drift, in order to search for additional stoping ground both above the back of this main tunnel and to sink a winze if an ore shoot is found, below the tunnel floor.

As this is a dead work requiring tunnel sets in addition to the cost of tramping the caved muck 700' to 800' he would be unable to pay for this work, out of the small margin of profit he may win from the stope in ore now in production.

In my opinion there are good indications that substantial additional ore shoots will be opened up by cleaning-out and retimbering this old drift and extending same along the vein towards the Old Iron Cap ground.

For many past years this Copper Hill area was a large producer of copper and just 700' to the southwest of the Black Oxide workings, commences old extensive workings on the Iron Cap group and contiguous on the north side are claims of the Old Dominion, both these old large past producers now controlled by the Miami Copper Company.

The above brief statement together with the two pencil sketches, I trust will supply the information desired.

Respectfully submitted,

(Signed) A. MACFARLANE
Globe, Arizona

*13-20-46
Superior*

October 11, 1946

Mr. E. A. Borge
212 North 1st Street
Globe, Arizona

Dear Mr. Borge:

Herewith is form for applying for exploration premium of one cent per pound for copper and/or lead and/or zinc.

This is the small mine form limited to mines that produced less than 600 tons of metal during the 12 months ending June 30, 1946.

There is a different and more complicated form for larger mines.

We know of nothing further to do than to make this out and send it in. We fear that there will be considerable delay, as we are advised the Quota Committee is understaffed and swamped.

Yours very truly,

Chas. H. Dunning
Director

CHD:LP
Enc.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES
RECEIVED
PHOENIX, ARIZONA
DEC 9 1942

Mine BLACK OXIDE CLAIM

Date December 7th, 1942

District COPPER HILL, Globe, Arizona.

Engineer A. Macfarlane

Subject: Re. Application C Loan.

Gentlemen;

Today I have made a brief examination of the Black Oxide Claim workings, this being one of the 51 Patented claims known formerly as the Boston Superior Group, but now stated to be owned by Mr E.A. Borge of 212 North First Street, Globe, ARIZ.

LOCATION ; The workings of the "Black Oxide" are approximately 5 miles northeasterly from Globe and connected therewith by a good mine road, from Globe to the International Smelter where the present ore output is marketed is over about 9 miles of paved highway.

TRANSPORTATION: Of the ores is by truck to the Smelter at an average rate of \$1.00 per ton, a conveniently situated ore bin just below the floor of the main tunnel portal allows of rapid loading of the dump trucks.

Vein Occurrence; Only about 40' of the back of the vein is now visible on the main tunnel level, the southwesterly continuation of this tunnel is caved probably by the fill of an old stope.

The vein from just about 15' S.W. of the ore-chute to 25' N.E. of said ore chute seems to be from 6' to 7' wide, definite walls are visible and these seem to be nearly vertical, showing some slicken-sides.

The ore within the walls varies in width from 2.5' to 4' as seen in the stope about 40' above the tunnel: this vein is a fissure and may be continuous and as indicated by the wall structures may carry down to considerable depth.

The vein casing rock on the northerly side has been classified as Diabase and the southerly casing as Quartzite, this I daresay is a fair statement in the absence of proper spectrograph examination.

Mineralization: The vein filling is principally an iron oxide in a gangue of quartzite and schist and certain bands of this vein filling contains carbonate of copper and considerable copper oxide more or less distributed in the ~~xxxx~~ vein from wall to wall.

I suspect a small percentage of the vein matter is floored mica as the greasy texture of the vein filling suggests mica and a trace of graphite.

The highest grade ore copper and silver, is in certain bands of quartzite distinctly visible along the floor of the stope.

Present Production; Five miners are now employed in mining and

BLACK OXIDE. E. A. Borge, owner, Globe, Arizona.

This is the old Superior and Boston property. Currently 6 men are employed in production and repair. The main adit gives access to the present stoping area--the last several hundred feet of the adit are caved. A Preliminary Development Loan has been applied for, and recommended by the Department, for the purpose of cleaning out and extending the adit under the continuation of the ore shoot.

From 10 to 25 tons of $4\frac{1}{2}\%$ copper ore can be produced from this property daily. It is a good example of a satisfactory copper yield per man hour of labor and is deserving of every financial and priority assistance for continuance of operation.

from COPPER REPORT NO. 2, DECEMBER 23, 1942, by Earl F. Hastings, for
COPPER BRANCH, WAR PRODUCTION BOARD.