



## **CONTACT INFORMATION**

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PRINTED: 05/30/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: OXHIDE MINE

ALTERNATE NAMES:

SCHULTZ GROUP  
CYPRUS MIAMI OXHIDE

GILA COUNTY MILS NUMBER: 147

LOCATION: TOWNSHIP 1 N RANGE 14 E SECTION 34 QUARTER S2  
LATITUDE: N 33DEG 23MIN 00SEC LONGITUDE: W 110DEG 55MIN 20SEC  
TOPO MAP NAME: INSPIRATION - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

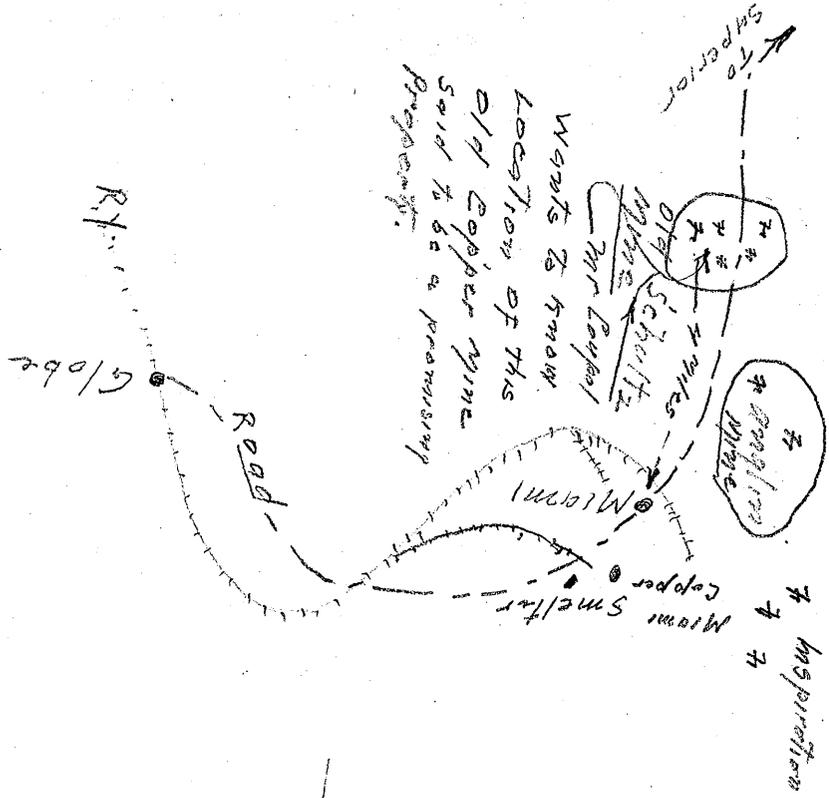
COMMODITY:

COPPER OXIDE

BIBLIOGRAPHY:

ADMMR OXHIDE MINE FILE  
E&MJ, APR 17, P 63-74; 1974  
CLAIMS EXTEND INTO SEC. 33 AND SEC 3,T1S,R14E  
TONTON N'TL FOREST, BLM, ARMY CORPS OF ENGRS,  
1997, CYPRUS MIAMI LEACH FACILITY EXPANSION  
PROJECT; DRAFT EIS, APRIL 1997, 295 P IN EIS  
TONTON FS, BLM, USCOE, FINAL EIS, 6/1998

22



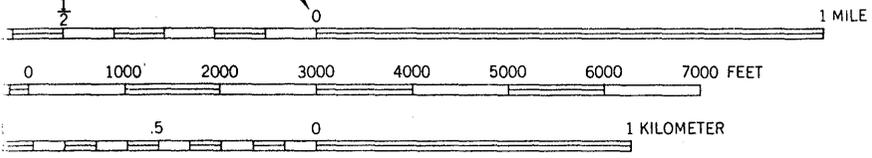
DEPT. MINERAL RESOURCES  
 PHOENIX ARIZONA  
 APR 27 1943  
 PHOENIX ARIZONA

Check to Reuben's Mine  
 prospect



505 (Pinal Ranch) 3850 IV SW  
 0.8 MI. TO U.S. 60-70  
 SUPERIOR 14 MI. SCALE 1:24000

507 509 SUPERIOR 15 MI. PHOENIX 79 MI. INTERIOR-GEOL



CONTOUR INTERVAL 25 FEET  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
 GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
 DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

Primar  
 hard s  
 Secon  
 hard s

WIDE V  
 ARIZ. G.  
 FIG.

Revisions shown in purple compiled from aerial photog  
 taken 1978 and other source data. This information nc  
 field checked. Map edited 1982

Inspiration 7.5

Location: S34, 1N, 14E

OX-HIDE MINE  
(formerly Schulze Group)

GILA COUNTY

MAPS - upstairs in the flat file storage area in the second drawer (under Schulze)

Gallahan Mining Corp. (card)

Geology & Ore Deposits of the Globe-Miami District by Nels Peterson, p. 342

Ransome, p. 115

Production Possibilities of the Marginal Copper Mines in Arizona, 1941, p. 100 (Schulze)

Pay Dirt (Inspiration,) April, 1969, p. 21

Mining Congress Journal, September, 1968, p. 16

E/MJ, September, 1968, p. 195

" April, 1969, p. 146

" April, 1974, p. 26

" , Aug., 1974, p. 66, 67, 63 *PM Plant*

Mining World, December, 1963, p. 36

Metal Mining & Processing, February, 1965, p. 39

Skillings Mining Review, January 20, 1968

" " " April 14, 1973, p. 12

Mining Engineering, April, 1973, p. 44

Mining Annual Review 1974, p. 303

Globe-Miami Area (file-district) See: Major Active Mining Operations in the  
Globe-Miami Area of Arizona.

*Bill Broadgate*

Dear Mac,

Please pardon this informal note, but am not feeling so well today...

The Quota Committee has passed your case, but I understand it will be scaled down a little, reviewable Feb. 1st.

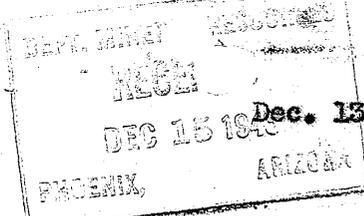
Your reports seem to show pretty high profits, based on the 9-plus cent figure.

We are badly tied up just now due to organizational changes in WPP. I got the premium system all straightened out in Bacheller's office, only to have him leave and Wilson take over his duties. Wilson has been away and also is now sick, consequently there are 60 cases sitting on his desk for signature.

I am trying to have Donald Nelson appoint someone to sign for Wilson in his absence, and in fact, from now on, as Wilson certainly will not attend to this important function properly.

That is why there are so many premium cases held up now, after the Quota Committee has approved them.

Bill Broadgate *e*



CARLOTA COPPER CO.

BOX 1745

MIAMI, ARIZONA

December 8, 1943

Mr. W.C. Broadgate,  
Hotel Harrington,  
Washington, D.C.

Dear Bill,

Re: Schulze Mine

Thank you very much for your letters of the 1st and 2nd. I greatly appreciate your helpfulness and am immediately writing Pop Elsing. I did not know just how the Price Committee is now set-up.

Our request for the special bonus price is not based upon any anticipated exceptional profit since at that price we would net only 97 cents per ton which amount would go back into development work with the idea of making available the tonnage necessary to justify the leaching plant.

The shipping ore we figure to work on first is high silica and desired by the smelter. They have allocated us 50 tons a day at this time and can increase it later on.

Our deal calls for only a 5% royalty on net smelter returns and on this grade of ore that will amount to little or nothing. I have set this forth on the usual forms which were filed and are now in Elsing's hands.

If we can get this price bonus I would think that it would be a major step towards some form of financing to accomplish the ultimate purpose of bringing in a mine which would produce copper at a cost not dependent upon a subsidized market.

If we can't get the bonus we will <sup>be</sup>stimied at the start.  
other data

We are working up the data and hope that the Committee will allow the bonus before the December deadline arrives.

Am living in Globe and will look up your friend, Michault.

Sincerely,

*Mac*  
McClintock

SCHULZE GROUP

Gu

Gila

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T 1 N, R 14 E

schulze

na

Edward Schulze, Box 110, Miami

'43

SCHULZE GROUP  
Gila County

AG

May 5, 1943

Sam:

Attached please find correspondence  
and copy of report on the Schulze group.

It might be well for us to check into  
this further as Mr. Dentzer seems to consider  
this a potential producer of consequence.

C.F.W.

June 13, 1941

✓  
Mr. Edward Schulze  
Box 110  
Miami, Arizona

Dear Mr. Schulze:

I have your second questionnaire and this completes our information relative to your property. I am rather disappointed that you did not give us more data on the second questionnaire, as we were hoping to present a story that would interest the government authorities in looking into the possibilities of the property, and the meager information would not appeal to them particularly.

Thanking you, I am

Yours very truly,

Chairman, Board of Governors  
Arizona Department of Mineral Resources

CFW:LP

OX HIDE MINE

GILA COUNTY

Inspiration Consolidated Copper Co.'s Ox Hide mine installed an LIX plant during the year. Other operations were about the same as last year. FTJ Annual Report 6-30-70

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Visited Ox Hide - talked with engineer in office - not much news given out. FTJ WR 9-25-70

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Active Mine List Oct. 1970 - 57 men - T.E. Bilson, Supt.

During the first nine months Inspiration produced 103,527,000 lbs. of copper, as compared with 96,863,000 lbs. in the similar period of 1969. The increase is attributable to a larger output at the Inspiration and the Ox Hide mine in the Globe-Miami district of Arizona. Skillings 12-12-70 p. 33

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To Ox Hide mine, talked to office engineer - no changes noted. FTJ WR 1-29-71

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To Ox Hide mine. Visited with Bob Hush, office manager. They are experimenting with LIX using 1 pad (leachpile). The rest of the operation is conventional "tin can", etc. They make about 33,000 lbs. of Cu per day. There are days pay employees (33), and 5 salaried. FTJ WR 3-31-71

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Ox Hide mine operated at its regular rate. FTJ QR 4-5-71

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Went to Ox Hide mine. No changes in operation. FTJ WR 4/13/72

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The Ox Hide and Inspiration mines produced at their regular rate. FTJ QR 3rd 1/2 71-72

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Development and production of the Red Hill Mine continued and Black Copper Mine was producing as was the Ox Hide and Christmas Mine. FTJ 4 1/2 '72

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Inspiration Copper Company continued mining at the Ox Hide and Christmas mines. FTJ Annual Report 6/28/73

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RRB WR 9/9/83: Tom Cousins of Inspiration reports that the Joe Bush and the Thornton pits are combined as the T. J. Pit and the Live Oak and Red Hill pits are combined as the L. R. pit.

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OX HIDE MINE

GILA COUNTY

Inspiration is drilling at the Pinnacle which is north of Ox Hide. Also drilling at Troy. Visited the Ox Hide mine. Tom Bilson is manager. They were preparing the pads for leaching. FTJ WR 5-31-68

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Inspiration is drilling at the Pinnacle which is north of Ox Hide. FTJ WR 5-31-68

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The Ox Hide mine of Inspiration Consolidated Copper Co. was in operation at the end of the quarter. FTJ QR 7-1-68

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Inspiration Consolidated Copper Co. announced plans to bring the Ox Hide mine into production at 6,000 tons per day near Inspiration, Arizona. The ore will be ripped and carried to leach dumps in self-loading scrapers. Recovery is expected to 3.8 pounds of copper per ton of ore. World Mining Catalog June 1968

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Active Mine List Oct. 1968 - 25 men

Inspiration's Ox Hide division was the scene in the third quarter of first leaching getting started, which will expand as more ore areas are available at this open pit mine. Skillings Mining Review 11-23-68 p. 14

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Visited Ox Hide mine - Tom Bilson on the property. FTJ WR 11-29-68

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Visited Ox Hide mine office - Mr. Bilson not available for visit. FTJ WR 1-31-69

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Visited Ox Hide mine - Mr. Bilson not available. FTJ WR 3-28-69

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Active Mine List April 1969 - 48 men - T.E. Bilson, Supt.

Visited Ox Hide mine - Mr. Bilson not in. They are installing a LIX system. FTJ WR 9-26-69

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Active Mine List Oct. 1969 - 54 men - T.E. Bilson, Supt.

Visited Ox Hide mine, change to LIX completed about week before my visit. FTJ WR 11-28-69

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Talked with engineers at Ox Hide office who said they were starting another pad. FTJ WR 1-30-70

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Visited Tom Bilson at the Ox Hide mine - no particular news. FTJ WR 3-27-70

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Inspiration reported that its new Ox Hide mine west of Miami is now on a three-shift basis and has provided about 50 new jobs. Ariz./New Mexico Contractor Magazine 5-1970

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Active Mine List May 1970 - 55 men - T.E. Bilson, Supt.

Schulze Claims (owned by Albert Schulze, of Miami, Arizona).

Interview with Bert Reed, Chief Geologist, Inspiration Copper Co. 9-27-63.

Mr. Reed stated that Callahan Lead-Zinc Co., is preparing to drill the Schulze Claims that adjoin the Blue Bird (Stoval Copper Company) that was also optioned by Callahan's drilling operations and Joy Mfg. Co., has contracted the drilling. LAS Memo 9-27-63

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Visited Jack Eastlick and H. W. Olmstead of Inspiration office - they have two core drills and 2 churn drills drilling the Schulze property. FTJ WR 11-25-66

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Inspiration is continuing to drill Schulze Ranch property about one mile west of the Blue Bird operation. FTJ WR 1-27-67

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The Ox Hide mine is the Schulze property which is active, stripping and preparing for mining and leaching. FTJ WR 3-31-67

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Inspiration was drilling the Schulze property near the highway east of the Blue Bird. Results said to be satisfactory. FTJ QR 2nd Quarter 1966-67

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Ox Hide mine, situated near the Inspiration division of Inspiration Consolidated Copper Co. had proven ore reserves at the end of the year of 10,243,000 tons of ore with an average content of 0.49% copper. Property is being developed by Inspiration for open pit mining and extraction of copper by heap leaching and precipitation of copper with scrap iron. Laboratory test work has given favorable results. Mining and metallurgy are now being tested on a pilot basis to confirm indicated methods, costs, etc. Skillings Mining Review April 1, 1967 page 9

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Visited Jack Eastlick and Hugh Olmstead at Inspiration. They are still stripping and preparing the Ox Hide for production. Inspiration is again drilling the Troy property (Sec. 27-28, T3S, R14E, Pinal County) and doing geologic work west of the Ox Hide. FTJ WR 5-26-67

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Visited drill site on Schulze. Work has been held at abeyance. No one at property. FTJ WR 9-29-67

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Inspiration Consolidated Copper Co., Inspiration, announced plans to develop the Ox Hide copper mine 5 miles west of Miami, by heap leaching and the precipitation of copper with scrap iron. Proved ore reserves at the property totaled 10.2 million tons, with the average content of 0.49% copper. The company also announced plans to construct a rod mill close to the company's present operations near Inspiration. Skillings Mining Review 1-20-68

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Interview with Hugh Olmstead at Inspiration office. They are developing the Ox Hide mine, but starting date not given. FTJ WR 3-29-68

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Active Mine List April 1968 - 25 men

Heading	Sub-Heading	Category	Lakeshore Mine	Lower Ox-Hide Mine	Santa Cruz Si
Technical factors	Geology	Tonnage	21,000,000	40,000,000	800,000,000
		Shape	?	elliptical wedge 1,800 ft by 1,400 ft	6,000 ft by 5
		Grade	1.3 total copper	0.3 pct total copper 0.15 pct acid sol. Cu	0.43 pct total
		Depth	?	exposed at surface	1,500 ft to 2
		Thickness	?	up to 500 ft	300 ft to 750
		Mineralogy	?	chrysocolla, malachite, azurite	chrysocolla, malachite, chalcocite, bornite
		Mineral Distrib.	fracture fillings	fracture coatings and fillings, staining feldspar	ave. distance broken fractures
		Geol. Structure	?	?	5 fractures per
Fluid Flow Management		Permeability	?	?	?
		Porosity	?	20 pct	?
		Solution containment barriers	?	faults form barriers on east, west, and bottom	?
Chemistry (laboratory tests)		Metal recovery	?	75 pct of acid soluble in dump leaching	74 pct to 90 pct leaching tests
		Metal Conc. vs time	?	1.6 gpl ave. for ferric cure process	?
		Acid consumption	?	8.3 to 9.5 lb H2SO4 per lb of copper recovered	1.5 to 4.5 lb lb of copper recovered
Logistic factors	Access	Roads	yes	yes	yes
		Power	yes	yes	?
		Water	yes	yes	?
Facilities		Pregnant sol. proc.	SX-EW	SX-EW and cementation plant	no
		Support capabilities	shop, warehouse, offices	shop, warehouse, office, assay, computer, acid	no
Environmental		Baseline envir. monitor	?	?	?
		In situ mining permit	class V experimental	no	no

USBM DATA 1985

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Schulze Claims Date March 23, 1962  
District Miami District, Gila County Engineer Lewis A. Smith  
Subject: Conference with Woodrow Simmons

Owner: John E. Schulze et al, P.O. Box 1104, Miami, Arizona.

Status: It was reported that Schulze is negotiating with certain parties who are said to be interested in the property.

History: The Live Oak Development Co. sunk 9 churn drill holes in about 1912, but shortly thereafter gave up the property. These holes were reportedly sunk to depths ranging from 200-800 feet. Some years later a stock company sunk a 100 foot shaft. The Schulze interest have held the claims for a considerable time.

Geology: The geology is reported on in a report by B. Van Voorhis, Chief Engineer for Magma Copper Co. Copies of this are in the files. The mineralization appears to be similar to that seen on the Blue Bird property nearby.

Production: Some 300 tons of ore ranging from 2.5 to 14.5 per cent copper, were shipped in small lots.

David L. Kuck  
P. O. Box 1793  
Miami, Arizona  
December 27, 1961

Mr. Carl W. Appelin; Mining Engineer  
Shattuck Denn Mining Corp.  
317 Main Street.  
Grand Junction, Colorado

Re: Our conversation of Dec. 4, 1961 at the A.I.M.E. at Tucson, Arizona.

Dear Carl;

I have a lease option on the Schulze group of 16 lode claims, 3 miles west of Miami, Arizona on U. S. Highway 60-70. Terms are 5% Net Smelter Returns after smelting and transportation.

The deposit consists of near surface oxides consisting of chrysocolla, azurite, and malachite in and near sheeting cracks in the tertiary Schulze granite and pre-Cambrian pinal schist. Over burden is 0 to 20 ft. thick. Deposit is from 30-230 ft. thick, from drill holes. Average thickness is 105 ft. For ore reserve estimates, a 50 ft. thickness is assumed. An estimate based on 250 surface assays and 11 drill holes gives 6,500,000 tons at 0.65% total copper.

Drilling, Breaking and Leaching in place is proposed as the method of development and copper recovery. Laboratory and pilot plant tests indicate this method is feasible. An almost complete absence of pyrite necessitates the use of acid for leaching and tin cans can be used for precipitation.

The property is 3 miles from a rail head by paved highway. Telephone and single phase electric power are developed to the property. A 110 K.V. 3 phase power line crosses the center of the property.

A \$ 250,000 .00 capital investment is needed to place this property in operation with a 250 gpm precipitation plant which should produce 125 tons of copper a month. This \$ 250,000 .00 covers water development, construction of precipitation plant, including pumps and pipelines, acid storage, and distribution, power development, equipment, drilling sampling, and assaying and also one years' operating capital.

Estimated net profit over 10 years will equal \$ 2,000,000 .00 before taxes at a 25¢ per pound copper price. At least 6 months will be needed for making preliminary tests of the mining method and to determine if sufficient water is available locally or if it should be piped from Miami. The proposed Plant will require a four to six man crew to operate.

If this sounds like something worth looking into, let me know. I can be reached by telephone, ( Granite 3-3076 ) before 7:00 AM or after 5:30 PM.

Yours truly,

*David L. Kuck*  
David L. Kuck

*Dr. Hide Mine*  
(File) Gila  
H

May 5, 1943

Mr. E. G. Dentzer, General Manager  
Magma Copper Company  
Superior, Arizona

Dear Mr. Dentzer:

I want to thank you for your letter of  
May 4 enclosing copy of report on the Schulze group  
of mining claims.

We already have sent out instructions  
to our field engineer in that territory to look it  
over as soon as he had the opportunity.

We are very glad to have the report to  
augment our own findings. You may be sure we will  
check into it to see if anything can be done.

With kindest personal regards, I am

Yours very truly,

CHARLES F. WILLIS,  
State Secretary  
A.S.M.O.A.

CFW:KHE

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REPORT ON THE  
SCHULZE GROUP

GLOBE-MIAMI MINING DISTRICT

GILA COUNTY, ARIZONA

March 26, 1943

COPY

B. VAN VOORHIS

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CONCLUSION:

The heirs of the Schulze estate have offered for sale a group of sixteen unpatented lode mining claims. The price asked for this mining property is two hundred twenty thousand dollars (\$220,000.00), the terms of an option and sale to be agreed upon if the Magna Copper Company is interested in the property.

The surface outcrops and shallow workings expose a large amount of very low grade copper ore, a large amount being only slightly copper stained granite with narrow bands of chrysocolla running through it. The amount of tonnage and the grade of the ore is undetermined because of the lack of data on previous drilling done and the small amount of development work done to date.

I would not recommend this property because of the following reasons:

1. The inability of mining companies to get material and the necessary labor at this time to prospect or develop additional properties.
2. The lack of water for plant purposes.
3. This ground adjoins the Inspiration Copper Company holdings, and if an ore body was developed, the Inspiration or Miami Copper Company would be in a position to handle this type of ore rather than an outside company because they are equipped and are now mining and processing the same type of ore.

LOCATION AND ACCESSIBILITY:

The Schulze group of mining claims is located in the Globe-Miami Mining District, Gila County, Arizona, about 3-1/2 miles west of Miami, Arizona. The U. S. Highway 60-70 runs through the southern end of the claims, and a very poor mine road runs up a steep canyon northward from the highway to within 1/4 mile of the north end line of the claims.

CLAIMS:

There are sixteen contiguous unpatented lode claims in the group held by the right of discovery and the necessary assessment work done required by the laws of Arizona. The claims were staked some forty years ago by the late August Schulze.

TITLE AND OWNERSHIP:

The group is owned by the Schulze estate, of which Mrs. Minnie Kinsey, Albert, Edward, and August Schulze are the heirs.

MINES IN DISTRICT:

The Inspiration Copper Company is mining from their sulphide workings about 1-1/2 miles northeast of the Schulze group, the Castle Dome mine is about 2-1/5 miles west, and the Miami Copper Company mine is about 2 miles northeast of the Schulze ground.

TOPOGRAPHY, CLIMATE, AND VEGETATION:

The claims cover an area of ground from the bottom of the Schulze Wash to the ridge east of the Needle. The elevation varies from about 3850 at the wash to about 4445 feet on the top of the ridge. This area is all on the south slope of the mountain, and the drainage is into the Schulze Wash.

The climate is typical of all southern Arizona with mild open winters and dry hot summers. The average yearly rainfall is about 20 inches. The area is sparsely covered by cactus, catclaw, stunted pinon, and other small desert shrubs. The only permanent water is in the Schulze Wash.

GEOLOGY:

I only saw two rock formations on the property, namely Schulze granite and Pinal schist. The Pinal schist covers one claim along the wash on the southern end and about 2-1/2 claims along the ridge on the northern end of the ground. All the remaining area is Schulze granite. A number of faults were seen, and they were all striking east and west, and their dips were from 30° to the south to vertical.

DEVELOPMENT AND ORE OCCURRENCE:

The development work done to date consists of 9 churn drill holes put down by the South Live Oak Development Company in 1912. This company took an option on the property, and after this drilling program was carried out, the option was relinquished. The story is that this company was looking for chalcocite, a high grade copper ore. The holes were supposed to be from 200 to 500 feet in depth, and no record is available on the results of this drilling. A few years later, another stock company secured an option on the property and sank a shaft 100 feet, but this venture folded up before any drifting or crosscutting was done.

Development work and a small amount of stoping has produced probably not over 300 tons of closely sorted ore that has been shipped to various smelters. The smelter returns from these small lots show copper values from 2.5% to 14.5%. The mining was done between the years of 1925 to 1929. Practically all the workings are now caved except a small 200-foot tunnel that has a stoped out area over it. This open working is at the north end of the ridge. A number of small open cuts are scattered

BIS

over the area.

The ore outcrops on these claims in four separate places, the strike of all of these outcrops being east and west. Starting on the southern end of the claims along the edge of Schulze Wash, an outcrop can be traced a quarter of a mile. The north wall is granite and the south wall schist. The exposed outcrop is from 200 to 300 feet in width. The copper minerals seen were chrysocolla with an occasional speck of azurite. The chrysocolla has barely stained the granite over this area except at three places where the small veinlets of chrysocolla are numerous enough that a few tons have been mined that could be called ore. A shaft has been put down 100 feet, and from the bottom a crosscut was driven northward. I was told the crosscut did not get entirely across the vein at this point. Ore on the shaft dump was similar to that seen on the surface except an occasional pyrite crystal.

The second outcrop was northward about a quarter of a mile. This outcrop was about 100 feet wide, and both walls were granite. This outcrop could be traced for some 1000 feet. No concentrated veinlets of chrysocolla were seen, and the material was only slightly stained granite and crusts.

The third outcrop was northward along the base of the ridge and was similar to the second one in respect to the material.

The fourth outcrop was along the ridge at the north end of the property. The country rock was schist. This outcrop has a band some three feet in width running through it that had numerous small veinlets of chrysocolla that enriched it enough to make it shipping ore. This ore has been stoped to a depth of some 30 feet and along a length of about 75 feet. The above mentioned band has a dip to the south of about 40°, and the enrichment came from a sheer zone along the strike of the outcrop.

EQUIPMENT:

One small mine car is all the equipment on the property.

Respectfully submitted,

*B. Van Voorhis*

B. Van Voorhis.

**Magma Copper Company**  
SUPERIOR, ARIZONA

May 4, 1943.

Mr. Charles F. Willis,  
520-528 Title and Trust Building,  
Phoenix, Arizona.

Dear Charlie:

If you will recall, several weeks ago I talked to you concerning the Schulze group of mining claims in Gila County. Enclosed is a copy of a report on this property made by our Mr. Van Voorhis. There is probably some copper there, but as you will note from his report, either Miami or Inspiration would be the people that would have to work the property.

I am sending you a copy of this report so that you will be better able to decide whether or not you wish to have some one from your department to look the property over.

Yours very truly,



E. G. Dentzer,  
General Manager.

EGD:P  
Enc.

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REPORT ON THE  
SCHULZE GROUP  
GLOBE-MIAMI MINING DISTRICT  
GILA COUNTY, ARIZONA

March 26, 1943

B. VAN VOORHIS

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TITLE AND OWNERSHIP:

The group is owned by the Schulze estate, of which Mrs. Minnie Kinsey, Albert, Edward, and August Schulze are the heirs.

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MINES IN DISTRICT:

The Inspiration Copper Company is mining from their sulphide workings about 1-1/2 miles northeast of the Schulze group, the Castle Dome mine is about 2-1/5 miles west, and the Miami Copper Company mine is about 2 miles northeast of the Schulze ground.

TOPOGRAPHY, CLIMATE, AND VEGETATION:

The claims cover an area of ground from the bottom of the Schulze Wash to the ridge east of the Needle. The elevation varies from about 3850 at the wash to about 4445 feet on the top of the ridge. This area is all on the south slope of the mountain, and the drainage is into the Schulze Wash.

The climate is typical of all southern Arizona with mild open winters and dry hot summers. The average yearly rainfall is about 20 inches. The area is sparsely covered by cactus, catclaw, stunted pinon, and other small desert shrubs. The only permanent water is in the Schulze Wash.

GEOLOGY:

I only saw two rock formations on the property, namely Schulze granite and Pinal schist. The Pinal schist covers one claim along the wash on the southern end and about 2-1/2 claims along the ridge on the northern end of the ground. All the remaining area is Schulze granite. A number of faults were seen, and they were all striking east and west, and their dips were from 30° to the south to vertical.

DEVELOPMENT AND ORE OCCURRENCE:

The development work done to date consists of 9 churn drill holes put down by the South Live Oak Development Company in 1912. This company took an option on the property, and after this drilling program was carried out, the option was relinquished. The story is that this company was looking for chalcocite, a high grade copper ore. The holes were supposed to be from 200 to 300 feet in depth, and no record is available on the results of this drilling. A few years later, another stock company secured an option on the property and sank a shaft 100 feet, but this venture folded up before any drifting or crosscutting was done.

Development work and a small amount of stoping has produced probably not over 300 tons of closely sorted ore that has been shipped to various smelters. The smelter returns from these small lots show copper values from 2.5% to 14.5%. The mining was done between the years of 1925 to 1929. Practically all the workings are now caved except a small 200-foot tunnel that has a stoped out area over it. This open working is at the north end of the ridge. A number of small open cuts are scattered

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over the area.

The ore outcrops on these claims in four separate places, the strike of all of these outcrops being east and west. Starting on the southern end of the claims along the edge of Schulze Wash, an outcrop can be traced a quarter of a mile. The north wall is granite and the south wall schist. The exposed outcrop is from 200 to 300 feet in width. The copper minerals seen were chrysocolla with an occasional speck of azurite. The chrysocolla has barely stained the granite over this area except at three places where the small veinlets of chrysocolla are numerous enough that a few tons have been mined that could be called ore. A shaft has been put down 100 feet, and from the bottom a crosscut was driven northward. I was told the crosscut did not get entirely across the vein at this point. Ore on the shaft dump was similar to that seen on the surface except an occasional pyrite crystal.

The second outcrop was northward about a quarter of a mile. This outcrop was about 100 feet wide, and both walls were granite. This outcrop could be traced for some 1000 feet. No concentrated veinlets of chrysocolla were seen, and the material was only slightly stained granite and crusts.

The third outcrop was northward along the base of the ridge and was similar to the second one in respect to the material.

The fourth outcrop was along the ridge at the north end of the property. The country rock was schist. This outcrop has a band some three feet in width running through it that had numerous small veinlets of chrysocolla that enriched it enough to make it shipping ore. This ore has been stoped to a depth of some 30 feet and along a length of about 75 feet. The above mentioned band has a dip to the south of about 40°, and the enrichment came from a shear zone along the strike of the outcrop.

EQUIPMENT:

One small mine car is all the equipment on the property.

Respectfully submitted.

(Signed) B. VAN VOONHIS

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REPORT ON THE  
SCHULZE GROUP  
GLOBE-MIAMI MINING DISTRICT  
GILA COUNTY, ARIZONA

March 26, 1943

B. VAN VOORHIS

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CONCLUSION:

The heirs of the Schulze estate have offered for sale a group of sixteen unpatented lode mining claims. The price asked for this mining property is two hundred twenty thousand dollars (\$220,000.00), the terms of an option and sale to be agreed upon if the Magua Copper Company is interested in the property.

The surface outcrops and shallow workings expose a large amount of very low grade copper ore, a large amount being only slightly copper stained granite with narrow bands of chryso-colla running through it. The amount of tonnage and the grade of the ore is undetermined because of the lack of data on previous drilling done and the small amount of development work done to date.

I would not recommend this property because of the following reasons:

1. The inability of mining companies to get material and the necessary labor at this time to prospect or develop additional properties.
2. The lack of water for plant purposes.
3. This ground adjoins the Inspiration Copper Company holdings, and if an ore body was developed, the Inspiration or Miami Copper Company would be in a position to handle this type of ore rather than an outside company because they are equipped and are now mining and processing the same type of ore.

LOCATION AND ACCESSIBILITY:

The Schulze group of mining claims is located in the Globe-Miami Mining District, Gila County, Arizona, about 3-1/2 miles west of Miami, Arizona. The U. S. Highway 60-70 runs through the southern end of the claims, and a very poor mine road runs up a steep canyon northward from the highway to within 1/4 mile of the north end line of the claims.

CLAIMS:

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TITLE AND OWNERSHIP:

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REPORT ON THE  
SCHULZE GROUP  
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March 26, 1943

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EQUIPMENT:

One small mine car is all the equipment on the property.

Respectfully submitted,

(Signed) B. VAN VOORHIS

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June 4, 1941

Mr. Edward Schulze  
Box 1104  
Miami, Arizona

Dear Mr. Schulze:

I want to thank you for the questionnaire regarding the Schulze Mining Group. The most important thing on this survey that we are making is the question that you failed to answer, that is, "How much copper could this property produce annually on a 14, 16, 18 or 20¢ price". Unless we can fill in that figure on your report it is of no avail to include it. We also would need to know the approximate cost of the leaching plant which would be required. I am sure that you can give us the information as to how much copper you could produce at 14¢ and what would be the necessary capital investment to get it into operation.

Also, on the properties that qualify for inclusion within the report we wish to carry a brief description of them. In order that these descriptions be uniform in character and style, we want the answers to certain questions, and it would be greatly appreciated if you could also fill out the enclosed questionnaire which will give us the additional information regarding your property which we can include. You can send this back to us at the same time you advise us as to the capital investment and the price of copper at which you can produce.

Thanking you for an early reply, I am

Yours very truly,

Chairman, Board of Governors  
Arizona Department of Mineral Resources

CFW:LP  
Enc.

ARIZONA DEPARTMENT OF MINERAL RESOURCES  
Capitol Building, Phoenix, Arizona

Name of property. Schulze Group

Location and accessibility of property. Located 3 miles west of Miami on Miami-Superior Highway. Accessibility - by way of Miami-Superior Highway

History of ownership. Schulze Bros. have held claims since first location papers had been filed on the claims.

Claims were leased out to two companys in 1912 and 1916, South Liveoak and Miami Consolidated, respectively.

Production history. Approximately two thousand ton of high grade ore have been shipped since claims location.

General geology (brief)

Schist and porphyry rock.

C O P Y

Ore occurrence. Veins of high grade 7 to 18% and bodies of low grade late 3% and  
intermediate to high grade ore.

Ore reserve (quantities and values).

approximately 100,000 tons

Unknown quantities of both high and low grade ore.

Accessory metals of value.

None

approximately 100,000 tons

Development work done.

Shaft, double compartment 100' deep.  
Hoist - 500 lb. bucket.  
Drift - 300'

(Total) approximately 100,000 tons

Plants (with capacity) already on property. None

Note- Have had no experience concerning cost of plants, cannot give estimate but ore is plentiful and access of power and transportation to claims very inexpensive.

Date 6/11/41

Signed Edward Schulze  
Box 110, Miami

ARIZONA DEPARTMENT OF MINERAL RESOURCES  
Capitol Building, Phoenix, Arizona

Name of property. Schulze Group

Location and accessibility of property.

Located 3 miles west of Miami on Miami Superior Highway.  
Accessibility; by way of Miami Superior Highway.

History of ownership.

Schulze Bros. have held claims since first location papers had been filed on the claims.

Claims were leased out to two Co's. in 1912 & 1916 <sup>Respectively</sup>  
South Liveoak & Miami Consolidated.

Production history.

approx. two thousand tons of high grade  
ore have been shipped since claims location

General geology (brief)

Schist & Porphyry Rock.

Ore occurrence.

7 to 18%

Veins of high grade ~~the~~ bodies of low grade 1 to 3 percent

Ore reserve (quantities and values).

Unknown quantities of both high & low grade ore.

Accessory metals of value.

None

Development work done.

Shaft, double compartment, 100' deep.  
Hoist - 500 lb. bucket.  
Drift 300'.

Plants (with capacity) already on property.

None

Note - Have had no experience concerning cost of plants, cannot give estimate; but ore is plentiful. Access of power and transportation to claims very inexpensive.

Date

6/11/41

Signed

Edward Schulze

Box 110, Miami

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property... *Schulze Mining Group*.....

Location... *3 miles west of Miami, on Miami Superior Hi. Way*.....

Ownership... *Schulze Brothers*.....

Name of Manager... *Schulze Bros*.....

Post Office address... *Box 1104 Miami Arizona*.....

Copper production (pounds) during each of the past five years:

1936... *None*..... 1937... *None*..... 1938... *None*.....

1939... *18,000 lbs*..... 1940... *18,000 lbs*.....

1941 rate of copper production based upon first four months... *None*.....

How much copper could this property produce annually

on a 14 cent price? .....

on a 16 cent price? .....

on an 18 cent price?.....

on a 20 cent price? .....

What price copper is necessary for this property? ... *14* .....cents per pound?

What plant facilities would be required and how much is the estimated cost in the event a 14 cent price could be assured? ... *Cost of Leaching* .....

... *plant producing 10 ton copper Daily*.....

a 16 cent price could be assured? .....

18 cent price? .....

20 cent price? .....

For what length of time would assurance of price and sale of full production be necessary? ... *2 yrs*.....

(cont)

How long would it take, after financing has been provided for, before production on the above basis could be reached? 3 Mo's

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? NO

If not, do you believe that your company would be amenable and agreeable to government financing? Yes

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? NO

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes.

Copper is much available on our claims and production assured if financed.

What would be your ideas on financing and carrying out such a plan as is indicated by these questions? Gov't financed; Copper

Sold to the Gov't at a fixed price; Managed by owners with Gov't Authority as assisting.

Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey.

NAME OF COMPANY

Date June 2, 1941 Signed Edward Schultze

QUESTIONNAIRE

Relating to survey of potential copper production from Arizona small and marginal mines for national defense purposes;

Name of mining property.. Schulze Mining Group .....

Location..... 3 Miles West of Miami, on Miami Superior Highway .....

Ownership..... Schulze Brothers and their wives - Minnie C. Kinsey .....

Name of Manager.. Schulze Bros. ....

Post Office address... Box 1104, Miami, Arizona .....

Copper production (pounds) during each of the past five years:

1936.... None..... 1937... None..... 1938..... None.....

1939... 8,000 Lbs..... 1940... 18,000.....

1941 rate of copper production based upon first four months.....

How much copper could this property produce annually

on a 14 cent price? .....

on a 16 cent price? .....

on an 18 cent price?.....

on a 20 cent price?.....

What price copper is necessary for this property? ..14..... cents per pound?

What plant facilities would be required and how much is the estimated cost in the

event a 14 cent price could be assured? Cost of leaching plant producing 10 ton  
copper daily.....

a 16 cent price could be assured? .....

18 cent price? .....

20 cent price? .....

For what length of time would assurance of price and sale of full production be necessary? 5 years.....

(Over)

How long would it take, after financing has been provided for, before production on the above basis could be reached? ... 3 Mo's .....

Does your organization have the facilities for raising the necessary capital to increase production to the amount stated? ... No .....

If not, do you believe that your company would be amenable and agreeable to government financing? ... Yes .....

Do you believe that you could finance the capital investment yourself on some such basis as a guarantee of sale of output at a fixed price and for a definite period, with damages to cover unamortized portion of capital investment in the event the government failed to take the output for the agreed upon time - or some similar arrangement? ... No .....

Please let us have your comments on the probability or possibility of your organization participating in such a program for national defense purposes .....

... Copper is much available on our claims and production assured if financed. ....  
.....  
.....  
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What would be your ideas on financing and carrying out such a plan as is indicated by these questions? ... Gov't. financed; copper sold to the Gov't. at a fixed price; managed by owners with Gov't. authorities assisting. ....  
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Kindly list names and addresses of other potential copper producers in Arizona whose operations should be included within this survey.....  
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