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12/24/96

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: ARIZONA COPPER GROUP

ALTERNATE NAMES:

ARIZONA COPPER CO. PROPERTY
SALT LAKE PROPERTY
JOHNSON WORKS

PINAL COUNTY MILS NUMBER: 318

LOCATION: TOWNSHIP 4 S RANGE 11 E SECTION 28 QUARTER SE
LATITUDE: N 33DEG 02MIN 47SEC LONGITUDE: W 111DEG 12MIN 54SEC
TOPO MAP NAME: NORTH BUTTE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER OXIDE
GOLD

BIBLIOGRAPHY:

ADMMR ARIZONA COPPER GROUP FILE
ADMMR ALVAREZ CLAIMS FILE
ADMMR CONS AU AND CU MINE FILE
ADMMR U FILE PINAL Cu 43
CLAIMS EXTEND INTO SEC. 35

ARIZONA COPPER GROUP

REFERENCES

PINAL COUNTY
RED HILLS DIST.
T4S R11E Sec. 28,33,34,

Pinal County MILS Index #318

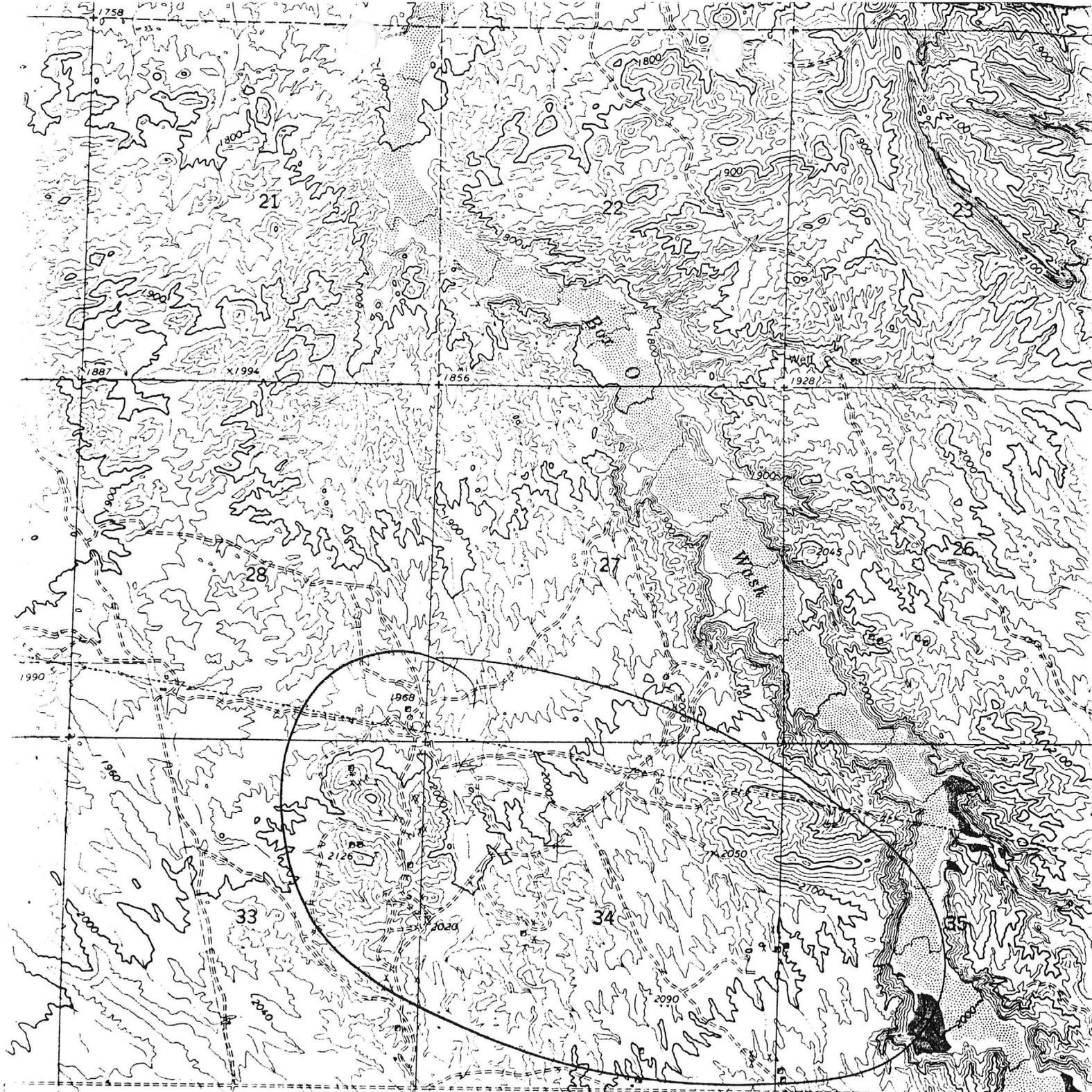
AKA: Arizona Copper Co. Property, Salt Lake Property, Johnson Works

Alvarez Claims (file) Pinal

AZ Consolidated Gold and Copper Mine (file) Pinal

"U" Files

North Butte 7.5' Topo (included in file)



As. Copper Group
T4S R1E Sec. 28, 33, 34, 35

North Butte, As. T. S.

ARIZONA COPPER GROUP (file) PINAL COUNTY

ARIZONA CONS. GOLD & COPPER MINES

Red Hill Deposit - Copper

12 Mi E. Florence- going to churn drill (1955)

Northern Research, Mr. Nicodemos. (Nevada Corp.)

John F. Johnson, 427 W. Dana Ave., Mesa, Ave.

ARIZONA CONSOLIDATED GOLD & COPPER MINES CO.
122 S. Mesa Boulevard, Mesa, Ariz.

MINES: ARIZONA COPPER GROUP, 30 lode claims, 11 Mi E of Florence,
Pinal Co., S28 & 35, T4S, R11E, Red Hills.
OWNERS: John F. Johnson, ^{dec 1961} Pres. Ariz. Cons. Gold & Copper Mines Co.
6-1951

August 26, 1948

Mr. Kenneth Hansen
713 Lafayette Street
Bridgeport, Connecticut

Dear Mr. Hansen:

We have your inquiry regarding the Johnson property.

Mr. H. N. Wolcott, now an engineer with this department made a private report on that property a couple of years ago. We have no further information but this department has always thought well of the property as a copper prospect. No doubt Mr. Johnson would furnish you with a copy of the Wolcott report if you requested it, but as it was a private report it would have to come through him.

Our favorable remarks about the property should not be construed as constituting advice to purchase stock. It takes many factors besides a good mine prospect to make a profitable venture and this department cannot cover those fields.

Yours very truly,

Chas. H. Dunning
Director

CHD:mh

1
D. Drill Holes on Ariz. Copper Co.
Nat Florence

No 1 395' at base

No 2 795'

No 3 521'

No 4 911' on

No 5 584'

Kenneth Hansen
713 Lafayette St.
Bpt. Conn.

Dear Sir:

Please send me a report
or all the information,
that you have on the
Copper mine owned by
John E Johnson, which
is located 18 miles out
of Florence & will be
known as the Arizona
Consolidated Copper & Gold &
is known now as the Johnson
works.

Yours truly
Kenneth Hansen

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

A. N. WILLIAMS
PRESIDENT

CHECK
ACCOUNTING INFORMATION
TIME FILED

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

**FOR VICTORY
BUY
WAR BONDS
TODAY**

Nov. 22, 1946, Phoenix, Arizona

Mr. John F. Johnson
Deliver to Box 304
Florence, Arizona

Meeting Humphrey nine A.M. Monday to come to your mine.

Chas. H. Dunning

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

(54)

SYMBOLS

DL=Day Letter
NL=Night Letter
LC=Deferred Cable
NLT=Cable Night Letter
Ship Radiogram

A. N. WILLIAMS, CHAIRMAN OF THE BOARD

JOSEPH L. EGAN, PRESIDENT

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

USA50 10=TOMBSTONE ARIZ 22 1000A

1946 NOV 22 AM 10 57

CHARLES H DUNNING=

CARE DEPT OF MINERAL RESOURCES HOME BUILDERS BLDG PHNX=

WILL MEET YOU FLORENCE HOTEL MONDAY MORNING ABOUT NINE OCLOCK=

W C HUMPHREY

ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, one-half the un-repeated message rate is charged in addition. Unless otherwise indicated on its face, this is an un-repeated message and paid for as such, in consideration whereof it is agreed between the sender of the message and this Company as follows:

1. The Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the un-repeated-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines.
2. In any event the Company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the actual loss, not exceeding in any event the sum of five thousand dollars, at which amount the sender of each message represents that the message is valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid, and an additional charge equal to one-tenth of one per cent of the amount by which such valuation shall exceed five thousand dollars.
3. The Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.
4. Except as otherwise indicated in connection with the listing of individual places in the filed tariffs of the Company, the amount paid for the transmission of a domestic telegram or an incoming cable or radio message covers its delivery within the following limits: In cities or towns of 5,000 or more inhabitants where the Company has an office which, as shown by the filed tariffs of the Company, is not operated through the agency of a railroad company, within two miles of any open main or branch office of the Company; in cities or towns of 5,000 or more inhabitants where, as shown by the filed tariffs of the Company, the telegraph service is performed through the agency of a railroad company, within one mile of the telegraph office; in cities or towns of less than 5,000 inhabitants in which an office of the Company is located, within one-half mile of the telegraph office. Beyond the limits above specified the Company does not undertake to make delivery, but will endeavor to arrange for delivery as the agent of the sender, with the understanding that the sender authorizes the collection of any additional charge from the addressee and agrees to pay such additional charge if it is not collected from the addressee. There will be no additional charge for deliveries made by telephone within the corporate limits of any city or town in which an office of the Company is located.
5. No responsibility attaches to this Company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender.
6. The Company will not be liable for damages or statutory penalties in the case of any message except an intrastate message in Texas where the claim is not presented in writing to the Company within sixty days after the message is filed with the Company for transmission, and in the case of an intrastate message in Texas the Company will not be liable for damages or statutory penalties where the claim is not presented in writing to the Company within ninety-five days after the cause of action, if any, shall have accrued; provided, however, that neither of these conditions shall apply to claims for damages or overcharges within the purview of Section 415 of the Communications Act of 1934.
7. It is agreed that in any action by the Company to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.
8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.
9. No employee of the Company is authorized to vary the foregoing.

10-42

CLASSES OF SERVICE

DOMESTIC SERVICES

TELEGRAMS

A full-rate expedited service.

DAY LETTERS

A deferred service at lower than the standard telegram rates.

SERIALS

Messages sent in sections during the same day.

NIGHT LETTERS

Accepted up to 2 A.M. for delivery not earlier than the following morning at rates substantially lower than the standard telegram or day letter rates.

CABLE SERVICES

ORDINARIES

The standard service, at full rates. Code messages, consisting of 5-letter groups only, at a lower rate.

DEFERREDS

Plain-language messages, subject to being deferred in favor of full-rate messages.

NIGHT LETTERS

Overnight plain-language messages.

URGENTS

Messages taking precedence over all other messages except government messages.

ARIZONA COPPER GROUP

Do Not Reproduce

PINAL COUNTY

RRB WR 3/6/81: Jennie of Sun Chief Mines, P.O. Box 2819, Globe, Arizona 85501, phone 425-4624, called to ask about the Red Hills Mining Co in Sections 33, 34 & 35, T4S, R11E, Pinal County. They had copies of the Alvarez and Arizona Copper Group (Red Hills Mining Co.) made. Sun Chief is a new company.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

WESTERN REGION
MINING DIVISION

May 14, 1947

File
Arizona Copper
Group
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY, UTAH

MEMORANDUM TO: J. H. Hedges, Tucson, Arizona
FROM : Paul T. Allsman, Salt Lake City, Utah
SUBJECT : Consolidated Gold & Copper Co. and Arizona Copper
Deposits, Florence, Arizona

L. L. Simmons and W. J. Robertson of Salt Lake City called to request examination and drilling on their copper property near Florence, Arizona. They had some beautiful specimens of sulfide copper and many very familiar pictures of the giant cacti.

I promised to call this to your attention, although you may know of it. The prospects are about 15 miles east of Florence and reported to have copper mineralization over a wide area. John F. Johnson, Box 304, Florence, Arizona, is sinking a shaft and either he or his men are there during the week.

The prospect may be reached from Florence by going east past the penitentiary for 11 or 12 miles, then turn left for 2 miles to a power line, turn right and drive to the shaft. The power line passes across the property.

These men knew little of mining and could give no extensive information. I have only promised to pass it on.

Best personal regards.


Paul T. Allsman

U. S. BUREAU OF MINES

MAY 16 1947

TUCSON DIV., MINING BR.

GEOLOGICAL RECONNAISSANCE REPORT

ON THE

✓ ARIZONA COPPER GROUP

PINAL COUNTY, ARIZONA

GEOLOGICAL RECONNAISSANCE REPORT
ON THE
ARIZONA COPPER GROUP
FINAL COUNTY, ARIZONA

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LOCATION AND DESCRIPTION OF PROPERTY

The Arizona Copper Group consists of 30 contiguous lode claims, situated approximately 11 miles east of Florence in Pinal County, Arizona. The ground covered by this group lies in Sections 28 and 35, T 4 S, R 11 E. All claims are full size (600' x 1500') and are held by location in the name of John F. Johnson, 427 West Dana Avenue, Mesa, Arizona.

The property lies approximately four miles north of the Florence-Ray Highway, with which it is connected by a very good graded road. To reach the mine from Florence requires only about 25 minutes of easy driving, and the road can be travelled in any season of the year. Copper smelters at Superior and Hayden are each approximately 40 miles distant from the property and each may be reached, either by railroad, from Florence as the shipping point, or by direct truck haulage on good highways.

A high-tension power line from Coolidge Dam crosses one corner of the property, but no effort has been made, as yet, to utilize this power.

No water supply has been developed on the property, but there is little doubt that a fairly adequate supply can be developed when it becomes necessary. The Gila River is approximately four miles to the north at an elevation 500 feet lower than the camp site.

TOPOGRAPHY

The topography of the area around the Arizona Copper Group is marked by low, rolling hills and fairly wide, shallow sand-washes. There are no precipitous slopes, and any point on the property could be made accessible to trucks or cars with a minimum of effort and expense. The average elevation above sea level is in the neighborhood of 2,000 feet.

Vegetation is moderately dense and typically desert in character, consisting mostly of palo-verde, ironwood and various types of cacti.

GEOLOGY

Rock Formations

Granite and quartz-monzonite are the predominant basal rocks in this locality, and certainly they are the oldest. The granite is, in all probability, pre-Cambrian in age, and the quartz-monzonite may be equally as old. There is as yet, however, no clear evidence upon which to base any estimate as to the relative ages of the two formations.

Throughout the area in which the Arizona Copper Group and adjoining properties are located the basal formations have been extensively cut and broken by intrusions of diorite, diabase, monzonite-porphry, aplite and, in a few places, by pegmatite. On the basis of present knowledge, no definite age correlation can be made between these various intrusives, but it seems reasonable to assume that most of them were introduced during the

Cretaceous or Tertiary periods.

In addition to the rocks mentioned above, there may be observed a few small dikes of a dark-colored, felsitic rock which weathers on the outside to a light tan color.

Structure

The most notable structural feature in this locality is a series or system of roughly parallel east-west faults and fracture zones which appear over an area of several square miles. Within the boundaries of the Arizona Copper Group the fractures are closely spaced - so close in places that they give almost an appearance of sheeting. A great majority of these faults and fractures exhibit a remarkable uniformity of strike and dip (see map accompanying this report). The average strike trend is about N 80° E, and the dip varies from vertical to about 75° to the northwest.

Between the major breaks there is a network of minor cross-fractures, but none of these shows any evidence of appreciable movement. They were probably caused by stresses which developed in the blocks between the faults. Although the cross-fractures do not have such a markedly uniform strike-trend as that of the major fracture zones, there is a noticeable tendency toward a N 45° E direction. This diagonal trend suggests a lateral movement of the fault blocks as well as a vertical or steeply inclined movement of normal faults. No evidence of thrust-faulting has been observed in the area. Most of the major faulting probably

took place during the intrusion of the granite and quartz-monzonite by the later rocks mentioned above.

In the southern part of the Arizona Copper Group several reddish-brown hills rise conspicuously above the surrounding terrain. These hills are known locally as "the dome". It is not believed, however, that they actually represent any structural condition. A probable explanation of their existence would be that the extensive silicification which has taken place along the fracture-zones in this area has made the rocks more resistant to erosion than the surrounding country.

Mineralization and Ore Occurrence

Iron, usually in the form of amorphous hematite, but sometimes as platy specularite, is present in the fractures throughout the property. In the hills described above as "the dome", iron mineralization has discolored the rock between the fracture-zones, giving the entire surface a conspicuous dark red color.

Quartz also is plentiful and, associated with iron, it forms prominent outcrops along the fault fissure veins. Silicification has also occurred along all of the major fracture-zones.

Copper may be found, usually as chrysocolla, sometimes as malachite, in practically every fracture on the property. It occurs on or very near the surface in small lenses and stringers, and in many places it is in sufficient quantity to constitute a

low-grade ore. Dozens of trenches and shallow pits from one end of the property to the other mark places where surface ore was dug, sorted and shipped out during 1916 and 1917 when copper prices were high. There are also a few small shafts, most of them in bad repair. These have a reported maximum depth of 100 feet, and none of them were accessible at the time this examination was made.

No sulphide copper was observed at any point on the property, either in the open-cuts or in the materials on the dumps, and it is quite evident that none of the old workings ever got through the oxidized ore. The depth to which oxidation may extend in this property can be determined only by exploratory work, but it is probable that this depth will not be excessive. Active operations on an adjoining property have recently encountered chalcopyrite in a vein at a depth of 150 feet, and there is no reason to doubt that similar conditions exist in the Arizona Copper Group.

The most highly mineralized area in this group of claims is outlined by a dotted line on the map. This area is approximately 2,000 feet wide and 4,000 feet in length, and includes the red hills which have been mentioned above. It should be pointed out that this is strictly a reconnaissance map. Only a part of the veins and fracture-zones are shown, and locations are approximate. Other areas outside this dotted boundary may be as well mineralized, but much of the surface of these outlying areas is covered with loose wash material, and hard-rock exposures are fewer.

CONCLUSIONS AND RECOMMENDATIONS

Surface showings on the Arizona Copper Group are remarkably good. The continuity, uniformity, and abundance of mineralized fracture-zones and fault fissure veins are such as to justify the expectation that they will persist to a considerable depth. The widespread distribution of oxidized copper ore on the surface indicates that there is a good chance for satisfactory ore-bodies below the leached surface material.

No opinion can be given at this time as to the presence or absence of large, low-grade disseminated ore-bodies on this property. Copper disseminations in the quartz-monzonite were noted in places, but this evidence was too scanty to justify any general conclusion. In view, however, of the extensive fracturing and the heavy surface mineralization in the red hills and immediate vicinity, the existence of disseminated copper ore-bodies should be regarded as a distinct possibility.

It is considered highly probable that high-grade copper ore may be encountered along some of the fault fissure veins on the property. Particular attention is directed to two strong veins which outcrop on the Arizona Copper No. 1 claim. One of these outcrops shows only iron and quartz on the surface. The other shows copper at various places. It is believed that proper exploratory work on either vein would prove to be well worthwhile. Many other veins on the property appear to offer very attractive prospects, but the two mentioned above are outstanding.

The justification for a reasonable amount of exploratory work on the Arizona Copper Group cannot be too strongly emphasized. The choice as to the method must, of course, be governed by the expense involved. In view of the extensive area upon which information would be desirable, drilling would secure more comprehensive results than actual underground work. Diamond drilling would be preferable to churn drilling - at least for the preliminary work - since the veins and fractures dip steeply, and an inclined hole would be much more in the nature of a structural cross-cut. If diamond drilling should encounter disseminated copper ore-bodies, churn drilling could follow later for blocking-out purposes.

If diamond drilling should be decided upon, there are four areas which should offer the best opportunity for exploration of this sort. These areas are, in the order of their importance:

- 1) The west end of Arizona Copper No. 1 claim.
- 2) North side of Arizona Copper No. 20 claim (somewhere near midway between end lines).
- 3) Near center of Arizona Copper No. 19 claim.
- 4) Eastern part of Arizona Copper No. 22 claim.

A certain amount of detailed geological work would be advisable in order to fix actual drilling locations and dip of holes to obtain the maximum amount of information from each hole. The depths to which these holes should be drilled will depend upon what is encountered during the course of the work; but in any event, they should be planned to attain a minimum depth of

300 feet vertically below the surface. That would mean an actual inclined depth of approximately 500 feet, depending upon the slope. These are minimum figures, and deeper drilling may prove to be advisable when the work has progressed to this point. If satisfactory results are obtained by the work outlined above, other favorable areas could be similarly explored.

In conclusion, it seems worthwhile to repeat that the surface showings on the Arizona Copper Group are such as to thoroughly warrant a reasonable expenditure for the purpose of exploring this ground below the zone of leaching and oxidation.

3017 N. 16th Drive
Phoenix, Arizona
December 30, 1946

H. N. Wolcott
Registered Geologist & Mining Engineer
Arizona Certificate No. 675

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date Dec. 1946

1. Mine: Arizona Copper Co.
2. Location: Sec. _____ Twp. A. S. Range 11 E Nearest Town Florence
Distance 15 Direction SW Road Condition Good
3. Mining District & County: Florence, Pinal
4. Former Name of Mine: _____
5. Owner: J. F. Johnson et al (Consolidated Gold & Copper Co.)
Address: Box 304 Florence, Ariz.
6. Operator: Same
Address: _____
7. Principal Minerals: _____
8. Number of Claims: _____ Lode Placer _____
Patented _____ Unpatented
9. Type of Surrounding Terrain: Rolling
10. Geology & Mineralization: _____
11. Dimension & Value of Ore Body: _____

12. Ore "Blocked Out" or "In Sight":

.....

.....

.....

.....

Ore Probable:

.....

.....

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts..... 4	750	2 Good being used, 2 Fair, some closing
Raises.....		
Tunnels.....		
Crosscuts.....	500'	
Stopes.....		Numerous surface cuts in addition to discovery holes

14. Water Supply:

.....

.....

15. Brief History: Ore developed in numerous open cuts and shallow shafts in early 1900's and mostly chloriding. ~~Canard~~ Probably 1000 tons 5-1570 Cu shipped. about \$75,000 spent on property to date. NO general or well planned system of prospecting or development has been planned.

16. Signature:

.....

17. If Property for Sale, List Approximate Price and Terms:

.....

ODT

Mal

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date Jan 7th 1945
 Name of Mine Copper Lake Mine
 Owner or Operator ...
 Address ...
 Mine Location 17 miles east of Florence

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

PRESENT OPERATIONS: (check X)

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

PRODUCTION: Past and Future.

Tons

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

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars
Light or Service Trucks	<u>one</u>	<u>600</u>	<u>40</u>
Ore Hauling Trucks
Compressors
Other Mine or Mill Eqpt.

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Copper

REMARKS:

.....

ARIZONA DEPARTMENT OF MINERAL RESOURCES.

By ...

Consolidated Salt Lake Copper Co.

DEPARTMENT OF MINERAL RESOURCES

**REPORT TO OPA ON
ACTIVE MINING PROJECT**

Date May 18, 1945

Filing Information

File System.....

File No.....

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

Name of Mine Salt Lake Mine
(Name of Claims - Chango # 1 to 7)
Owner or Operator John F. Johnson

Address Box 304 Florence, Arizona

Mine Location Seventeen miles east of Florence, Arizona.

PRESENT OPERATIONS: (check X)

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

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

Other (specify).....

PRODUCTION: Past and Future.

Tons

Approx. tons last 3 months

Approx. present rate per 3 months

Anticipated rate next 3 months Ten tons per day after cutting first vein.

If in distant future check (X) here

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars	<u>Model A Ford</u>	<u>450 miles</u>	<u>30</u>
Light or Service Trucks
Ore Hauling Trucks
Compressors	<u>Model A Ford</u>	<u>200 hours</u>	<u>300</u>
Other Mine or Mill Eqpt.	<u>Hoist Engine</u>	<u>150 hours</u>	<u>200</u>
	<u>30 horse power</u>		

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Copper

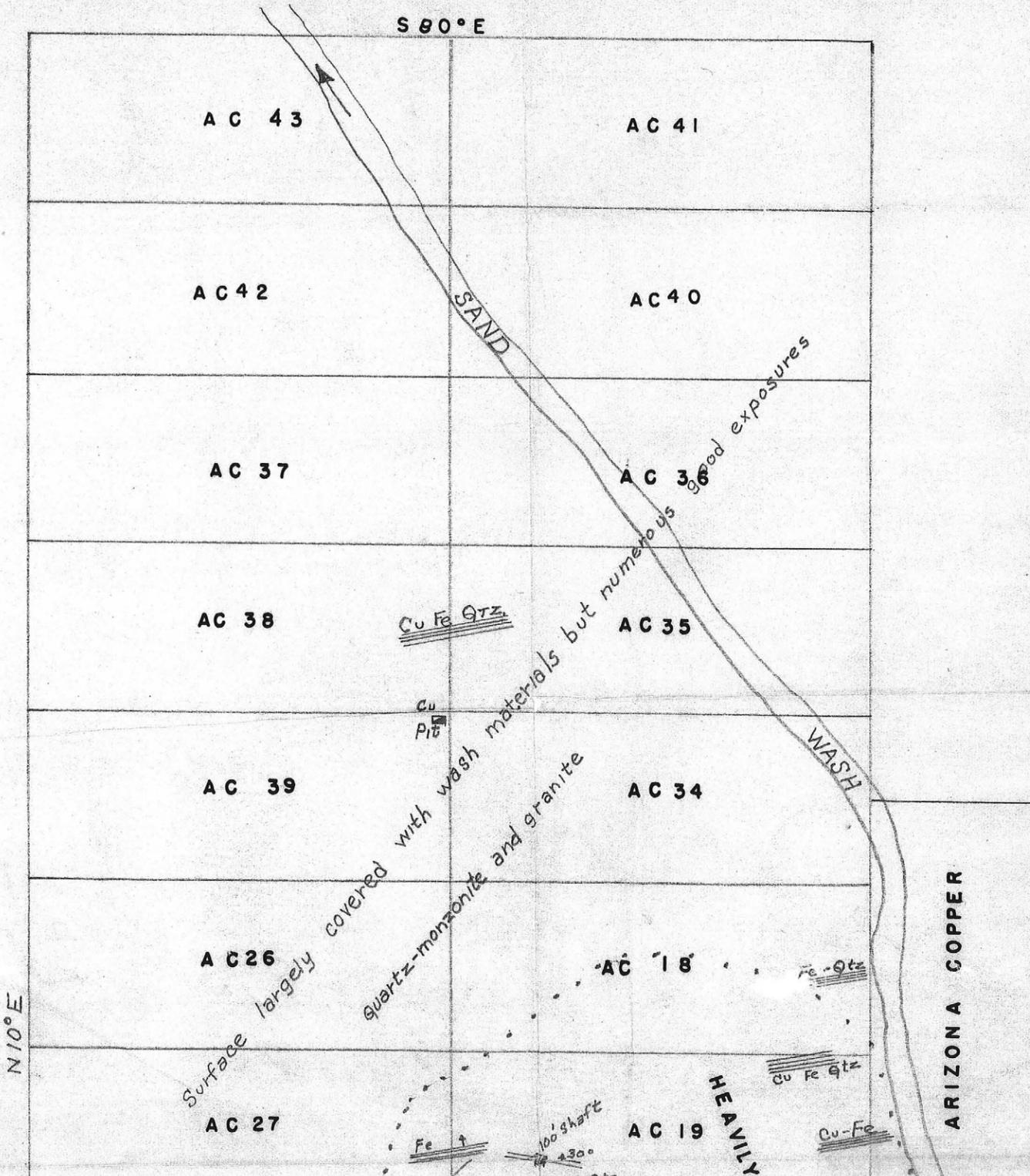
REMARKS:

~~Will crosscut 15 ore veins in drifting 700 ft. from bottom of 150 ft. shaft. All these veins carry values in copper. The first vein will be crosscut within 100 ft. It is from 4 to 5 ft. wide on the surface. Assorted samples taken from this first vein assay from 11.4% to 16.5% copper.~~

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By [Signature]

ARIZONA COPPER GROUP
 H. N. WOLCOTT



GEOLOGICAL SKETCH MAP
 OF THE
ARIZONA COPPER GROUP
 PINAL COUNTY, ARIZONA

SCALE - 1" = 500' DECEMBER, 1946

- LEGEND —
-  Mineralized Fracture Zone (Showing iron quartz and usually copper)
 -  Vein or Narrow Fracture Zone
 -  Shaft or Pit

H. N. WOLCOTT

