



CONTACT INFORMATION  
Mining Records Curator  
Arizona Geological Survey  
416 W. Congress St., Suite 100  
Tucson, Arizona 85701  
520-770-3500  
<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

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RECONSTRUCTION FINANCE CORPORATION  
MINING DIVISION  
REPORT OF SUPERVISING ENGINEER

Docket No. ND-8546  
Date Auth. for Exam Rec'd: Oct. 1, 1943  
Date of Exam. Incl. Oct. 8, 1943  
Date of Report: Oct. 20, 1943

1. NAME AND ADDRESS OF APPLICANT

H. G. Nelson  
314 $\frac{1}{2}$  N. 18th St.  
Phoenix, Arizona

2. CHARACTER OF PROJECT

Development of copper deposit.

3. LOCATION OF MINE

The mine is located in Sec. 4, T. 6 N, R 5 E, in the Cave Creek Mining District, Maricopa County, Arizona. The mine camp is approximately 40 miles distant by road from Phoenix. The road is good (mostly paved) to within 2 miles of the mine. The last two miles is steep and extremely rough and barely passable. A trail some 1/2 miles in length leads from the camp to the workings on top of a steep ridge. Phoenix is the nearest rail point and supply center.

4. APPLICANT

The applicant is a middle-aged man who recently has worked as a garage mechanic in Phoenix. He has followed mining intermittently for years and has worked at various mine and mill jobs and has directed several mine development projects. Many years ago, he operated as a rancher in the Chandler, Arizona, area and during the early development of that district he turned several properties at a substantial profit. He owns several small residence properties in Phoenix. He does not appear to have used good business judgment in his several mining deals.

5. LOAN REQUESTED

The applicant requests a loan in the sum of \$5,000 for the purpose of further developing a copper showing on his property.

6. DESCRIPTION OF PROJECT

The property consists of one unpatented claim known as the "Copper Dome" located by the applicant in May, 1943. It is located on a steep ridge in a semi-mountainous region. The applicant owns several contiguous claims and a millsite which are not made a part of the proposed loan project. The formation in the immediate vicinity of the mine is one of steeply dipping beds of alternating shists, shales,

slates and limestones. The beds strike NE-SW and dip northwest. The copper mineralization occurs with quartz in cherty garnetized limestone masses and stringers on a domelike hill composed principally of gray shaly limestone. The principal interest in the region has been directed toward thin stringers and lenses of gold quartz ore in the schist. A small amount of copper ore has been shipped from scattered localities. The production of gold and copper, however, has been small and no mine of importance has been developed.

The earliest work on the property dates back some 50 years when several cuts and pits were excavated on the sides and top of the ridge. This work and some of the later exploration was performed in the search for gold in the quartz seams and stringers in the chert limestone bands and their contacts. The amount of such work was small, however, and the gold production was very small. In later years the copper showings received attention, and in 1918 a company was organized and a long adit was driven westerly under the ridge. The applicant was a principal in this undertaking and put up some \$20,000 of the approximately \$50,000 which was spent. This tunnel is now completely caved and no maps or records are available regarding it. No ore was encountered and the adit was stopped at 800 feet because of exhaustion of funds and a falling copper market. The adit was originally directed toward an iron stained area or gossan (not on the claim under consideration in this application) and at about 400 feet it turned toward the dome on which the present workings are located. It is said that the face of the adit is within the applicant's ground with several hundred feet to go to explore the area directly under the workings. The surface workings and the sampling are described as follows:

The SW end center of the claim lies upon a saddle on the ridge. Approximately 250' northeasterly from this point and some 40' higher, on the side of a dome-like hill, a cut and a longitudinal trench have been made in a broad band of cherty garnetized limestone. The workings were sloughed in and the face and bottom could not be examined. About a hundred pounds of remnant sorted material lying on the dump contains a little quartz with some oxidized copper; it assayed .28 oz. au. and 2.35% cu. It is said that 5 or 6 tons of this class of material was derived from the cut many years ago and was milled at a nearby 2-stamp mill.

Some 40 ft. northeasterly from the above point a shaft (presently filled) was sunk upon the top of the hill. No record is available regarding this work but the size of the dump suggests that the shaft is not over 25 or 30 feet deep. A few hundred pounds of material similar to that noted in the above described cut could be seen lying on this dump. There is no ore exposed at either of these places and there is no indication that any worth while body of ore was developed here.

Some 450 feet Northeasterly from the shaft and some 100 feet lower, a deep, narrow out and shaft develops an oxidized copper stringer in a thin bed of garnetized lime which lies between beds of almost pure dark grey limestone. The applicant spent several weeks recently removing a small quantity of copper ore from the collar of the shaft. He presents a settlement sheet for 1.1 tons shipped from this place which assayed .035 oz au., 5.4 oz ag., and 9.63% cu. Sample No. 2 was cut at the collar of the shaft and No. 3 was cut in the end of the cut 12 feet southwest from No. 1. The samples show low gold-silver content and only a moderate amount of copper across narrow widths. The shaft, approximately 30 feet deep, was inaccessible. The applicant had been in it however and said that in the bottom the values pinched out entirely in the northeast end and were low in the southwest end.

There were no other showings of interest on the property.

#### PROPOSED WORK

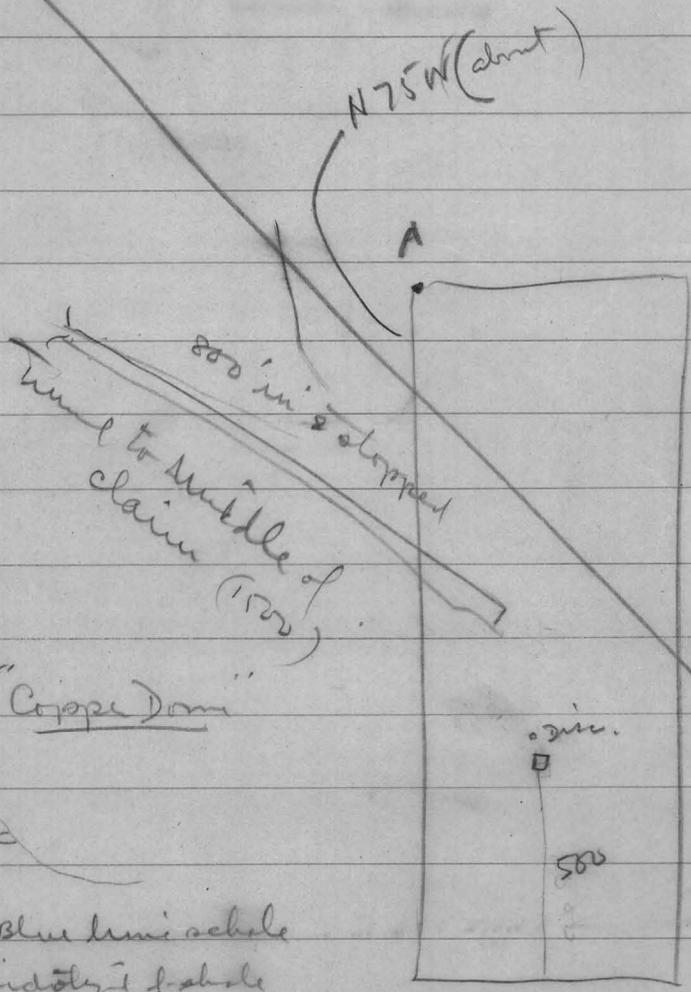
The applicant proposes to drift Southwesterly under the hill from the bottom of the shaft.

#### COMMENTS OF SUPERVISING ENGINEER

There is no evidence on the property which would justify the belief that an appreciable production of copper would result from further development. A development loan is not recommended.

TRAVIS P. LANE  
Supervising Engineer

D for 50' below C abundant float and occurs.  
 craps epid limestone No. stain  
 (above C no craps and only occurs float till top of  
 hill and shaft where epid ls shale is quite  
 large.  
 S is almost pure at C w/ little shale



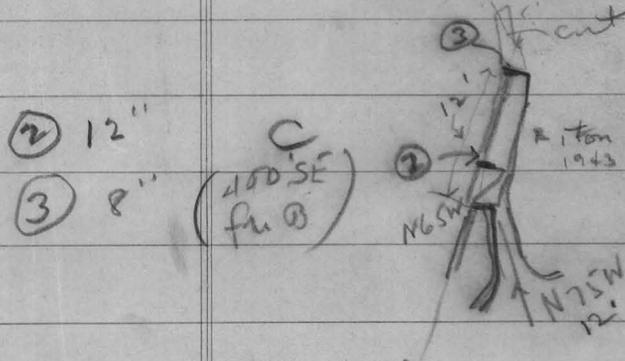
B is at crest of "Copper Dome"

Dome is kind of blue limi shale  
 w/ area at top of epidolyt l shale  
 C is in blue limi thin streak (up to 12")  
 epid limi shale as at crest.  
 Below C is shale w/ granite hill 1/2 mile west.

① dump

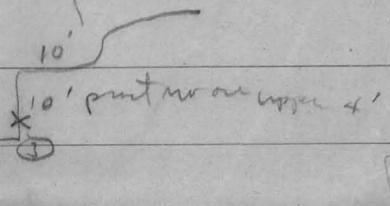
A - Cut a long trench N 65 E 250 ft + 40  
 dump shows sev. banded pds. str w/ iron stain and  
 some old copper stain 18' cut

B Shaft NE from A 40 depth unknown dump indicates  
 25'± Few cut. on edge of dump inside to sample #1



rem in rd blocky gyl ls.  
 ② was picked out below hole at collar of shaft with oxid-  
 blocky sample. shaft is 25 feet deep vent.  
 in excess. Applicant says he was all way to  
 bottom but as it is so good at collar & no iron  
 or stain in E well. 1 Ton ore picked out  
 1943 taken from cut for edge of shaft

1 Ton shipped from dump for shaft 1919.



No. 1a

Phoenix, Arizona,  
Oct. 8, 1943.

CHAS. A. DIEHL

# ARIZONA ASSAY OFFICE

Phone 3-4001

815 North First Street

P. O. Box 1148

This Certificate That samples submitted for assay by **Mr. T.P. Lane.**

contain as follows per ton of 2000 lbs. Avoir.

No.	MILLS' Width	SILVER		VALUE (Oz.)	GOLD		VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	COPPER	PERCENTAGE	REMARKS
		Ounces	Tenths		Ounces	Hundredths					
1	Dump	.4			.28		\$9.60		2.35		
2	12"	.4			.07		\$2.45		4.90		
3	8"	1.8			.09		\$3.15		3.25		

Charges \$ 6.00

Assayer ARIZONA ASSAY OFFICE

