

CONTACT INFORMATION

Mining Records Curator Arizona Geological Survey 1520 West Adams St. Phoenix, AZ 85007 602-771-1601 http://www.azgs.az.gov inquiries@azgs.az.gov

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PRINTED: 01/17/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: COPPER LEDGE 1-10

ALTERNATE NAMES:

MARICOPA COUNTY MILS NUMBER: 607

LOCATION: TOWNSHIP 7 N RANGE 6 E SECTION 15 QUARTER W2 LATITUDE: N 33DEG 55MIN 18SEC LONGITUDE: W 111DEG 43MIN 57SEC

TOPO MAP NAME: HORSESHOE DAM - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

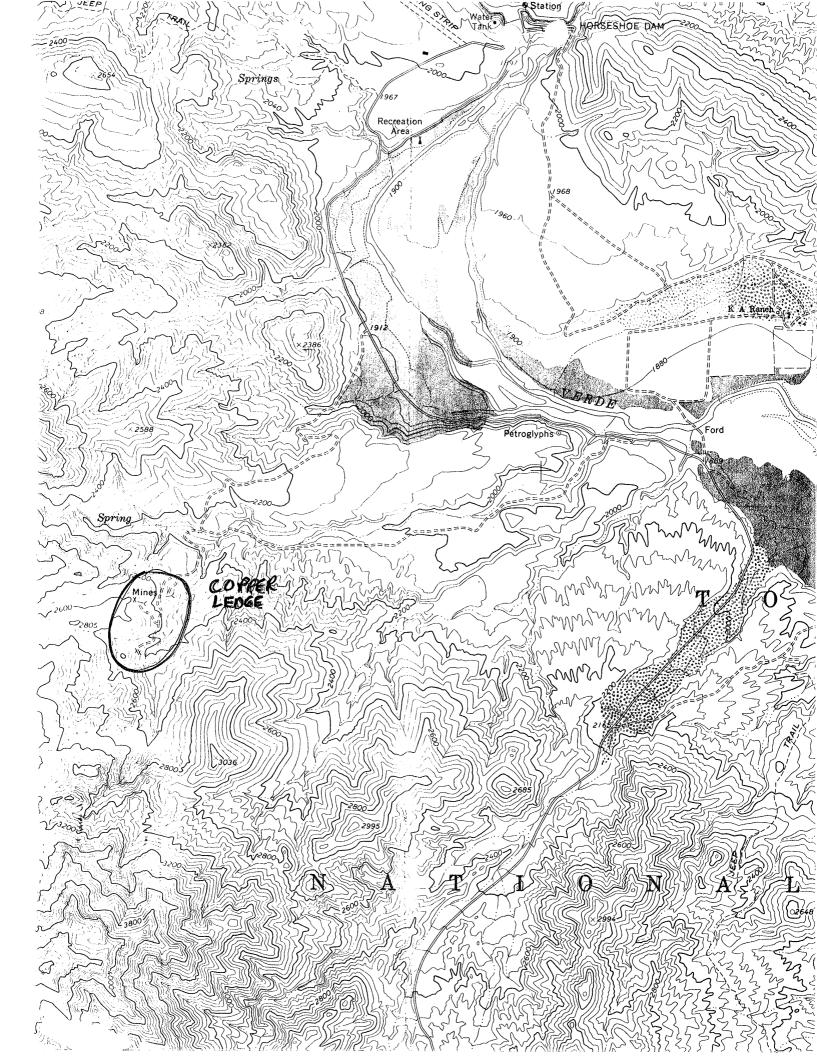
COPPER SILVER GOLD LODE

BIBLIOGRAPHY:

USGS HORSESHOE DAM QUAD ADMMR COPPER LEDGE 1-10 FILE

REFERENCES

MILS Sheet sequence number 0040130231



MINE AMP PROSPECT FIELD VISIT DATA SUMMARY

	Sheet 1 of 2						
	COMMODITIES Copper						
	MILS ID No Date 12/29/83						
	ENGINEER Nyal J. Niemuth						
	INFORMATION FROM: Nyal J. Niemuth						
	PROPERTY SUMMARY						
Ι.	MINE NAME Copper Ledge OTHER POSSIBLE NAMES Copper Ledge #1-10 (file) INCLUDING ANY CLAIM NAMES NOTED Unsurveyed						
II.	LOCATION: T 7N R 6E SEC(S) 15 W½ MINE DISTRICT Cave Creek						
	ELEV. 2400 COUNTY Maricopa TOPO QUAD. Horseshoe Dam 7½						
	DIRECTIONS As on topo. Road not recently improved. 4 wheel drive recommended						
	for access.						
	MAP ATTACHED yes						
III.	OWNERSHIP: NAME Tonto National Forest Lands PHONE						
	ADDRESS:						
	COMPANY NAME IF ANY:						
	PERTINENT PEOPLE						
ΙV.	PROPERTY AND HOLDINGS: None						
٧.	PAST PRODUCTION - NOTED, KNOWN, PROBABLE, UNKNOWN, NONE None likely unless small amount of vein material was hand cobbed and shipped.						
VI.	CURRENT STATUS: Inactive						
VII.	WORKINGS: Western most drift and prospect visited. Drift portal is caved. Upper						
	prospect now consists of 150' long cat cut.						
'III .							
	LENGTH: + 200' Disconting postess than 1 ft. VEIN STRIKE N45W DIP 80-850 NE						
	HOST ROCK: Diorite porphyry to diorite gneiss in vein area, general area is pink						
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						
	ECONOMIC MINERALS: Malachite and chalcocite						
	COMMENTS: Copper minerals occur in fractures. Amounts seen were less than 5%.						
	Country rock somewhat bleached and altered at veins with abundant limonite present.						
	Vein trends with joint pattern.						
IX.							
	as an ore sheet below the west adit level.						



SIVEP SYSTEMS IC. 2114 W. DESERT COVE PHOENIX, ARIZONA 85029 602-861-2138

1382

	Name A2.	Mine	el de	504nc	es	Control #	26-84
	Address				· · · · · · · · · · · · · · · · · · ·		
	City		State			Zip	
* \	Type of Materi	al:	MELT	•	вотн	OTHE	₹
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Assay For:	Ag	(Au)	Pt	Pd	Other	
	Date Due: Date Complete:						
•	Sample	Aug/	to As ght	RESULT Pt	S Pd	Other	Other
GRAD SAMPLE OF VEIN HANGING MALL, AND FOOT WALL MA TERVAL	Coppen	Tr.	.23				
	Blue Mtw.	Wil	wil				
	Blue Lode	.012	wil				
·	Orbonb	800,	I Try.		STERED	1933	
	Remarks:	Assayer _	Ji	- M	15583 JIM RO	Y	
•	TOTAL AMOU	INT DUE:	\$		WEATHER DATE	É PAID	
	I hereby certify that I have the authorization to release the materials listed above for and/or melting. I further certify that I hold true and lawfur title to all materials listed and have met all state and federal requirements concerning these.						bove for assay ils listed above
	RELEASED B	Y:					
	RECEIVED BY	Y:					

MAR 15 1963

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine COPPER LEDGE, 1-10, Storm CLOUD, 1-9,

Date 2-15-63

COPPER REEF, 1-3.

District CAVE CREEK DIST., MARICOPA COUNTY

Engineer LEWIS A. SMITH

Subject: REPORT SUBMITTED BY RAY LUPER 2-15-63

Property:

22 unpatented claims.

Location:

S 15-16, T. 7 N., R. 6 E.

Owners:

Claude R. Luper, 5408 S. 5th Street, Phoenix. James D. Dennis, 9436 S. 7th Ave., Phoenix

Lessee:

Fred L. Cherry, Apache Junction.

This is a lease that calls for 7 percent royalty (on gross) with ultimated

price of \$350,000, royalties to apply on purchase price.

Work:

Work is mainly in a series of cuts and location pits. One 32 foot shaft on

No.1 vein reached sulphides (somewhat oxidized) at 8 feet.

Geology:

The area consists of precambrian granite capped by schist bands, intruded by diorite, andesite and diabase as sills and dikes. One high hill, nearby is capped by metamorphosed limestone. 4 veins cross the claims. These generally strike NW - SE and the maximum exposure (vein No.4) is 350 feet. They vary from $3\frac{1}{2}$ to $6\frac{1}{2}$ feet wide According to Luper, No.2 vein follows close to or along the contact between granite and andesite. No.3 vein is mainly in schist. Five assays indicate that the veins range from 1.3 to 9 percent copper, several ounces silver and \$2 to \$7 in gold. The samples were taken over widths of 3.7 to 9 feet. The maximum assays assayed 12.3 percent and the minimum samples showed 1.3 percent copper, 0.3 ounces silver, and a little gold per ton. The veins' trends, as exposed, as well as the dip, indicate possible inter-

sections.

MARICOPA LEDGE 1-10 (F)

GEOLOGIC EXAMINATION

REPORT

oľ

COPPER LEDGE CLAIMS

in

CAVE CREEK MINING DISTRICT
Maricopa County, Arizona

by

R. E. Mieritz Mining Consultant Phoeniz, Arizona

28

Harry E. Puttuck Consulting Geologist Phoenix, Arizona

July,26, 1957

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APPENDIX

Plate 1 -- Index Map of Central Arizona.

Plate 2-- Sketch Geologic Map of Copper Ledge Group of Claims.

Conclusions:

This reoprt has been prepared as a matter of record and the following conclustions are base on a personal examination:

- At present, the property can be classed as mexely a prospect having four narrow veins (3 to 4 feet wide in places) of which only two have been explored for a maximum depth of thirty feet,
- 2. mineralization occurs along two types of veins, one being a copper oxide and sulfide impregnated quartz vein and the other, having the same minerals, is a contact vein between a coarse grained granite and a aphanitic andesite.
- 3. the property appears to have good possibilities due to the high grade of copper
 ore near the surface and the strength
 of the structures housing mineralization,
- 4. if the grade and width (average 2 to 3 feet) of number 1 vein persists for a reasonable depth and a strike of 100 to 200 feet, a few thousand tons of 5% of better copper ore may be realized from this one structure,

Location and Accessability:

The Copper Ledge Claims, comprising three contiguous unpatented lode mining claims are located in T 7N, R6E, Sections 15 and 16 approximately three and a half miles south of the Yavapai-Maricopa county line and two miles west of the Verde river.

Access to the property is via the paved
Phoenix-Cave Creek road for a distance of about
forty miles. Six miles east of Cave Creek a sixteen
mile dirt road leading to Horseshoe Dam passes
within two miles of the claims. From this dirt
road a jeep trail leads to within three quarters of
a mile from the property.

History:

Since no road or pack trail leads to the prospect from the end of the Jeep trail, it is assumed no ore had been shipped from the property to date. The condition of the dumps and the present workings indicates this work was completed many years ago. The present locators have completed all location work on the property prescribed by federal and state laws.

All three claims were located on April 14, 1957 and recorded in the Maricopa County recorders office

on April 15, 1957 in the name of Harry E. Puttuck of Phoenix, Arizona. Present ownership of the claims is divided equally between four parties as follows:

- 1. Mr. Richard E. Mieritz, Phoenix, Arizona
- 2. Mr. Harry E. Puttuck, Phoenix, Arizona
- 3. Mr. Stanley Kalaf, Phoenix, Arizona
- 4. Mr. George Hayes, Phoenix, Arizona

General Geology:

Geology of the area inwhich the property is located is that of Pre-Cambrian coarse grained granite intruded by a much later Tertiary intrusives in the form of andesite, and diorite or diabase dikes and sills. No major faulting or thrusting is evident in the area.

Local Geology:

The Copper Ledge claims are underlain by a Pre-Cambrian granite which is intruded by two dikes of Tertiary age. One dike is a very fine grained andesite while the second is a very porphyritic diorite or diabase. Mineralization on the property is evidenced in four veins fefered to as Copper Ledge veins number 1 through 4 and indicated on plate 2.

Vein #1 is a north-south striking near vertical quartz-copper bearing vein traceable on the surface

for about two hundred feet. The rock unit housing the entire vein on the surface is the diorite of diabase dike. Malachite, azurite, chalcopyrite, bornite and chalcocite or covolite are the copper minerals observed in the quartz fissure. These same minerals have impregnated the host rock walls as much as 2 feet in places. Samples taken from this vein zone are as follows:

Sample Number	Location	Assay
1	Two foot channel from 15 feet below surface in main pit.	6.5% Cu.
2	Four foot chip from host rock adjacent to vein 15 feet below surface in main pit.	1.7% Cu.
3	Two foot channel from 20 feet below surface in main pit.	4.7% cu.

Vein #2 strikes north 45° east and dips
73° east and is traceable for only thirty to forty
feet on the surface. This vein is also in the
diorite or diabase dike. Except for two very shallow
pits no development work has been done on this
vein. It varies in width along the surface from a
few inches to ever a foot. Only one sample
assaying 1.17% Cu. had been taken from this vein
about one foot below the surface in a small pit
located near the east center of Copper Ledge #1
claim. Copper and gaunge minerals are the same
as those observed in vein #1.

Copper Ledge Claim #3:

Vein #3 is a contact type mineralization between the granite-andesite contact. The vein strikes east-west and dips very steeply to the south. Width of this vein varies from six inches to two feet where it is exposed for fifteen feet in a trench along its strike. An adit driven along the right side of the vain and cross-cutting it twenty five feet from the portal revealed only minor copper mineralization indicating the ere along this vein may be somewhat sporatic. Assay results of three samples taken are as follows:

Sample Number	Lecation	Assay
4	Grab sample of ore pile (about two Tons).	11.95 % Cu.
5	1.5 foot channel from vein in back of portal	4.7% Cu.
6	two foot channel from right side of vein at portal of adit. (Taken to check mineralization beyoud footwall)	0.31% Cu.

Copper Ledge Claim #4:

Vein #4 outcrops in the northwest corner of Copper Ledge #4 claim and is traceable on the surface for over a hundred feet. Todate this vein has not been explored or sampled. It is a somewhat strong north-east striking vein, highly stained with iron exides.

Ore Reserves:

Ore broken and available for shipping from #1 vein is estimated at approximately forty tons of 5.0% to 6.0T copper. Estimated ore in place in #1 vein is sixty tens of probably 5.0% copper. estimate is based on the limited development of the fein and has been calculated by assuming that the vein extends six feet beyond the present north and south faces exposed in the pit with a depth of 30 feet and a vein width of 2 feet. Strength of the surface exposure indicates the vein may assume a considerable strike length in each direction from the present faces in the pit. Geologic conditions indicate the vein could assume considerable depth. If the strike length and depth assumptions hold true, there is an excellent chance of infering several thousand tons of copper ore of an assumed similar grate - 5% to 6%.

Production Costs:

The ore contains considerable silica (59.2%SiO2) and is readily acceptable by the near by smelters at Superior, and Hayden. The following is an estimated production cost:

Value of the ore based on 29 cent copper at an average of 5.0% copper at 90% payment is \$26.10/ton.

Mining-----\$ 7.50/ton

Shipping---Rail-\$ 2.40/ton Truck-\$ 4.00/ton \$ 6.40/ton Total------\$13.90/ton

Smelting \$0.0to \$ 5.00/ton
Total cost of Production \$13.90 to \$18.90/ton

Petential wise the property has possibilities which should be explored by underground development and surface drilling to determine the continuity along the strike and depth of the veins within the boundries of the claims.

Respectfully submitted,

R. E. Mieritz P. E. Mining Consultant Phoenix, Arizona

Harry E Puttuck Reg. Consulting Geologist Phoenix, Arizona



APPENDIX

Development Plans:

The four owners of the property have agreed to sell 60% of their holdings for the sum of \$5000.00.

A cash payement of \$2500.00 is requested which will be used for rehabilitation and initial development.

The first profits derived from the property will be used to refund to the original investors the \$2500.00 invested for initial development. After this has been accomplished, the four original owners will be paid the sum of \$5000.00 from profits derived from the property for the 60% sold to the original investors. This \$5000.00 will be paid in small enough payements that it will not hinder the finantual structure of the organization

After the purchase price has been paid, then profits will be divided among the investors and original owners according to percent of interest held in the property. Such payments will be made only as the operation can stand.

The following is an itimized list of expenditures anticipated for the initial development of the property:

- 1. Road rehabilitation & construction \$650.00
- Construction of ore bin ----- \$100.00
 Rehabilitation of mine workings --- \$300.00
- 3. Rehabilitation of mine workings ---- \$300.00 4. Equipment and supplies for one months operation----- \$500.00

Total

\$1590.00 or the production

The remaining \$50.00 will be used for the production of ore from #1 vein.

