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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SAM GROUP

ALTERNATE NAMES:

MARICOPA COUNTY MILS NUMBER: 587

LOCATION: TOWNSHIP 6 N RANGE 2 W SECTION 4 QUARTER SE
LATITUDE: N 33DEG 53MIN 10SEC LONGITUDE: W 112DEG 28MIN 12SEC
TOPO MAP NAME: GARFIAS MOUNTAIN - 7.5 MIN

CURRENT STATUS: RAW PROSPECT

COMMODITY:
COPPER
CALCIUM CALCITE
LEAD SULFIDE

BIBLIOGRAPHY:
USGS GARFIAS MTN QUAD
ADMMR SAM GROUP FILE

SAM GROUP MARICOPA COUNTY

Tom Platt who has 5% interest in Sam Group of claims, while 95% interest is held by L. W. & Helen Soules, Youngtown, brought in a claim map and report by Hale Tognoni.
FTJ WR 10/25/68

Jim Grant

MINERAL ECONOMICS CORPORATION

CONSULTING MINING ENGINEERS AND GEOLOGISTS

HALE C. TOGNONI, P.E. 2084
MINING AND GEOLOGICAL ENGINEER
GEORGE-ANN TOGNONI, CARTOGRAPHER

1525 WEST NORTHERN AVENUE
PHOENIX, ARIZONA - 85021
WI 4-2124

Mac Wright

June 21, 1966

Mr. Roy Petersen
10815 Fairway West
Sun City, Arizona

Re: Geological Report on the Sam #1 Through
Sam #12 Lode Mining Claims

Dear Mr. Petersen:

This letter is written as a letter report on my one day (June 9, 1966) visit to the Sam #1 through #12 lode mining claims located in Sections 3 and 4, T. 6 N., R. 2 W., G&SRB&M.

I was accompanied to the claims by Walter R. Strampe, Jr. and Skip Soules.

On the claims I took samples #105 through #114, the returns of which are attached hereto.

Beginning at the quarter corner common to Sections 3 and 4, I walked north to an outcrop approximately 150 feet north of said quarter corner and took sample #105.

We then progressed to the northwest along the center line of the Sam #9 and #10 claims. We dropped into the wash near the west edge of the claim and examined a thin veinlet along a diorite dike which contained galena and took sample #106.

We then walked north up the wash examining outcrops of calcite and quartz veinlets and of diorite dike material.

Near the center of Sam #11 we turned and walked southeast to the discovery hole on Sam #3 and took sample #107 across the shear zone.

I observed the diorite dike at this point which strikes generally east-west and dips to the northeast and took sample #108

approximately 50 feet west of sample #107.

We then walked to the south across Sam #8 and #7 and across the large wash dividing the north 54° 40' west striking Sam claims from the north 65° 10' west striking Sam claims.

We walked along the full length of the Sam #1 and #2 claims examining the outcrops of the quartz veinlets within the granite and schist.

We returned from the southeast corner of Sam #2 claim back across Sam #8 and then down the canyon to the place of beginning. During this traversing I took samples #105 through #114 which are more specifically described below:

Sample Number	Description
#105	On Sam #6 mining claim: Taken 30 feet southwest from a lath on the center line of Sam #6. This sample was taken across a small calcite veinlet which had considerable copper oxide stain and some chalcocite. This calcite vein was 2 to 3 inches wide, but in some places widened out into a pod as wide as 12 inches. This calcite veinlet or pod was within a bleached granitic rock.
#106	On Sam #9 mining claim: Taken in the ravine on the northwest end of the claim where the north-south road crosses the Sam #9 claim.
#107	On Sam #3 mining claim: Taken 20 feet west of the location notice of Sam #3 in a hole which varied from 4 to 6 feet wide and from 6 to 8 feet long and 12 feet deep. Sampled 6 inches across a quartz pod in a shear zone that cuts the schist vertically.
#108	On Sam #3 mining claim: Taken approximately 50 feet west and downhill from the discovery shaft on Sam #3 on a copper stained silica zone along a diorite dike in schist.
#109	Barren diorite: This sample was taken from the least altered piece of diorite I could find to determine the copper that may be within the rock itself. It is

Sample Number	Description
#109 continued	typical of the center portion of the diorite dikes.
#110	Quartz veins: This sample was gathered at random from float along the quartz veinlets that outcrop throughout the property.
#111	Red Rhyolite: Taken from a reddish outcrop approximately one-half mile northeast of the Sam claims.
#112	Contact diorite: This sample was taken of the copper stained diorite that lies along the contacts between the diorite and the granite.
#113	Canyon granite: This sample was taken in the bottom of the canyon near the southeast center of Sam #6 to check the amount of copper within the intrusive.
#114	Contact rock: Taken along the copper stained contact zone between the schist and the granite.

GENERAL LOCATION

These claims lie 10 miles east and 2 miles north of Morristown, Arizona and are reached by a dirt road which travels north from U. S. Highway 60-70 at a point 1½ miles northwest of Beardsley. The elevation of the area is 2600 feet.

GEOGRAPHIC SETTING

The region is typically southwestern arid with light rainfall and no timber. The topography is moderately rugged with sharp ridges and a few flat areas.

GEOLOGIC SETTING

These claims lie within the Pre-Cambrian granite within which lie pendents of Pre-Cambrian schist. It is crossed by east-west trending diorite dikes and laced with veinlets of quartz and calcite.

MINERALIZATION

The best mineralization seen on the claims appeared along the contacts between the diorite dikes of the schist.

Lesser amounts of copper mineralization appears within the quartz and calcite veinlets and along the contacts between the diorite dikes and granite.

STRUCTURE

The largest amount of movement seen was along the diorite dike on the Sam #3 claim where the granite on the north side of the dike shows considerable displacement in a normal fault dipping to the northeast. The north-south canyon on the west side of the claims and crossing the Sam #9, #10 and #11 appears to be along a northeast striking fault.

A similar canyon which also appears to run along a northeast striking fault crosses the east end of the Sam #1, #7 and #8.

Looking north on the claims from the center of Sam #1, it appears that the center area of the claims is a horst which has dropped down with respect to the hills to the east and west.

ECONOMIC MINERALIZATION

There is no economic mineralization on the surface of the claims in the area sampled and none of the veinlets appear to be true fissure veins.

Mineralization appears to be segregations along the contacts between the different rock types.

The discovery hole on the Sam #3 claim produced the best sample. This sample was taken across one of the quartz pods on the south side of the diorite dike from within a shear zone in schist. The movement along a shear zone left the quartz pods lying at random within the zone.

CONCLUSIONS

It is my conclusion that:

1. This area has interesting structure, rock types, and a small amount of mineralization. (copper, zinc, lead, silver and gold)

2. It appears that the center area slumped and that a portion of the granite was altered.

3. Neither casts from dissolved sulphides, limonite stains nor psuedomorphs were seen in the area and, therefore, it would not appear to be a normal cap rock over a disseminated copper deposit.

4. There are no fissure veins that can produce economic mineral within the area examined on the Sam claims.

RECOMMENDATIONS

It is therefore my recommendation that if one continues to explore this property the following should be the sequence of work:

1. Make a geological map of the surface.

2. Take geochemical samples on a grid over the surface followed by geophysical exploration.

3. That if a geochemical anomaly or geophysical anomaly is found, then drill holes to explore these anomalies.

4. That in order to preserve the title to the claims, if the above recommended sequence of events prior to drilling cannot be accomplished in the necessary 120 days, then dig location holes along the best contact area on each claim in order to examine the rock at shallow depth. One should not expect to develop any economic mineral in such location holes, but only be able to get further information as to the nature of mineralization of the rock beneath the leached surface.

Respectfully submitted,

Hale C. Tognoni
P. E. #2048

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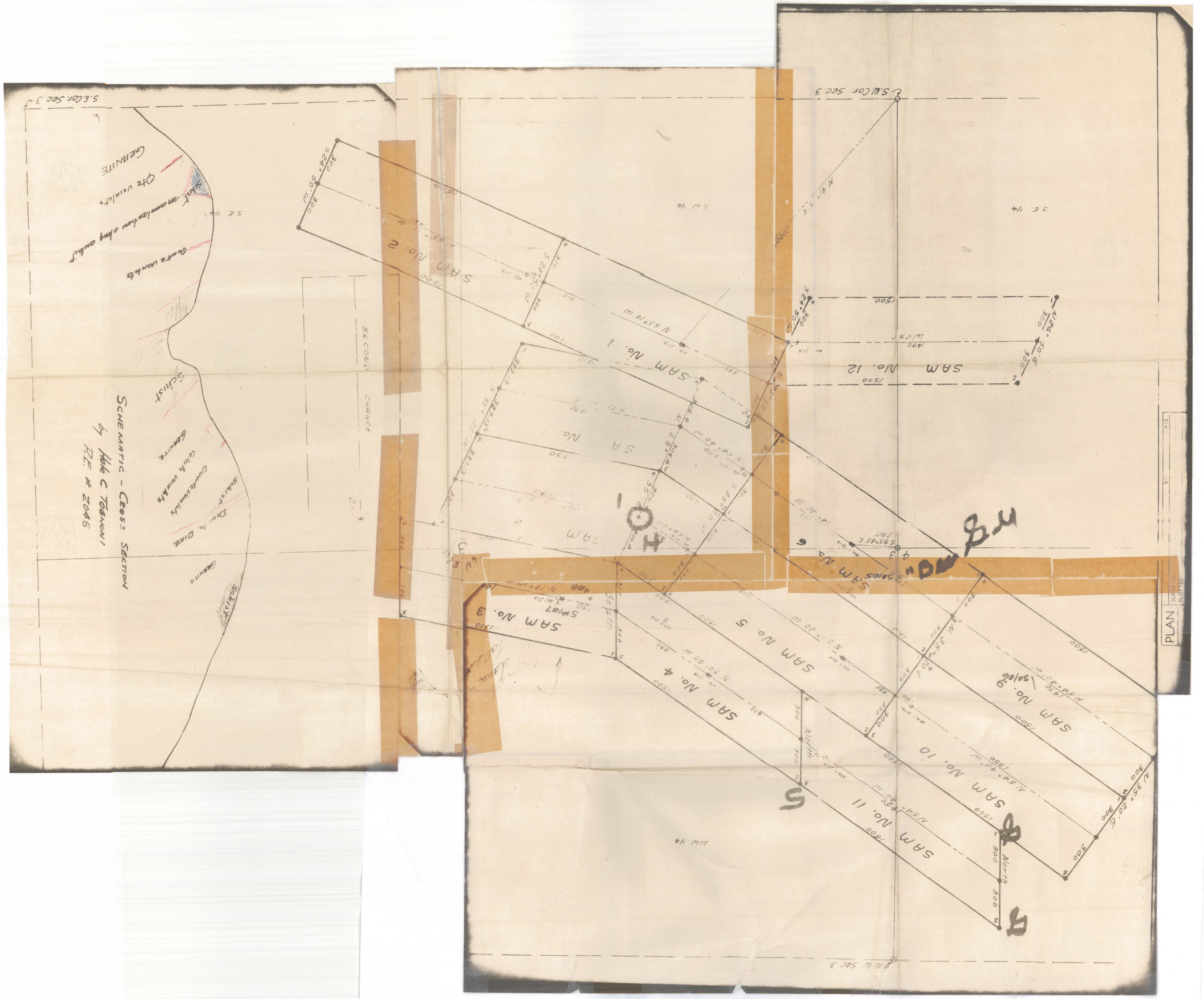
PLAN
SAM No. 12
SAM No. 1
SAM No. 2
SAM No. 3
SAM No. 4
SAM No. 5
SAM No. 10
SAM No. 11
SAM No. 9
SECOND CHANCE
S.E. 1/4
S.W. 1/4
N.W. 1/4
S.E. Cor. Sec. 3
S.W. Cor. Sec. 3
N.W. Cor. Sec. 3
North
SCHEMATIC - CROSS SECTION
by Hale C. Tobiason
P.E. # 20486
Schist
Quartz veinlets
Gneiss veinlets
Granite
Dior. Dike
Schist
Granite
Schist
Quartz veinlets
Schist
Granite