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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MINERAL DYKE PROPERTIES

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 133

LOCATION: TOWNSHIP 14 N RANGE 9 W SECTION 30 QUARTER N2
LATITUDE: N 34DEG 31MIN 40SEC LONGITUDE: W 113DEG 14MIN 30SEC
TOPO MAP NAME: BAGDAD - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
COPPER
ZINC
IRON SULFIDE

BIBLIOGRAPHY:
BLM MINING DISTRICT SHEET 346 & 335
ADMMR MINERAL DYKE PROPERTIES FILE
CLAIMS ALSO IN SEC 25-T14N-R10W

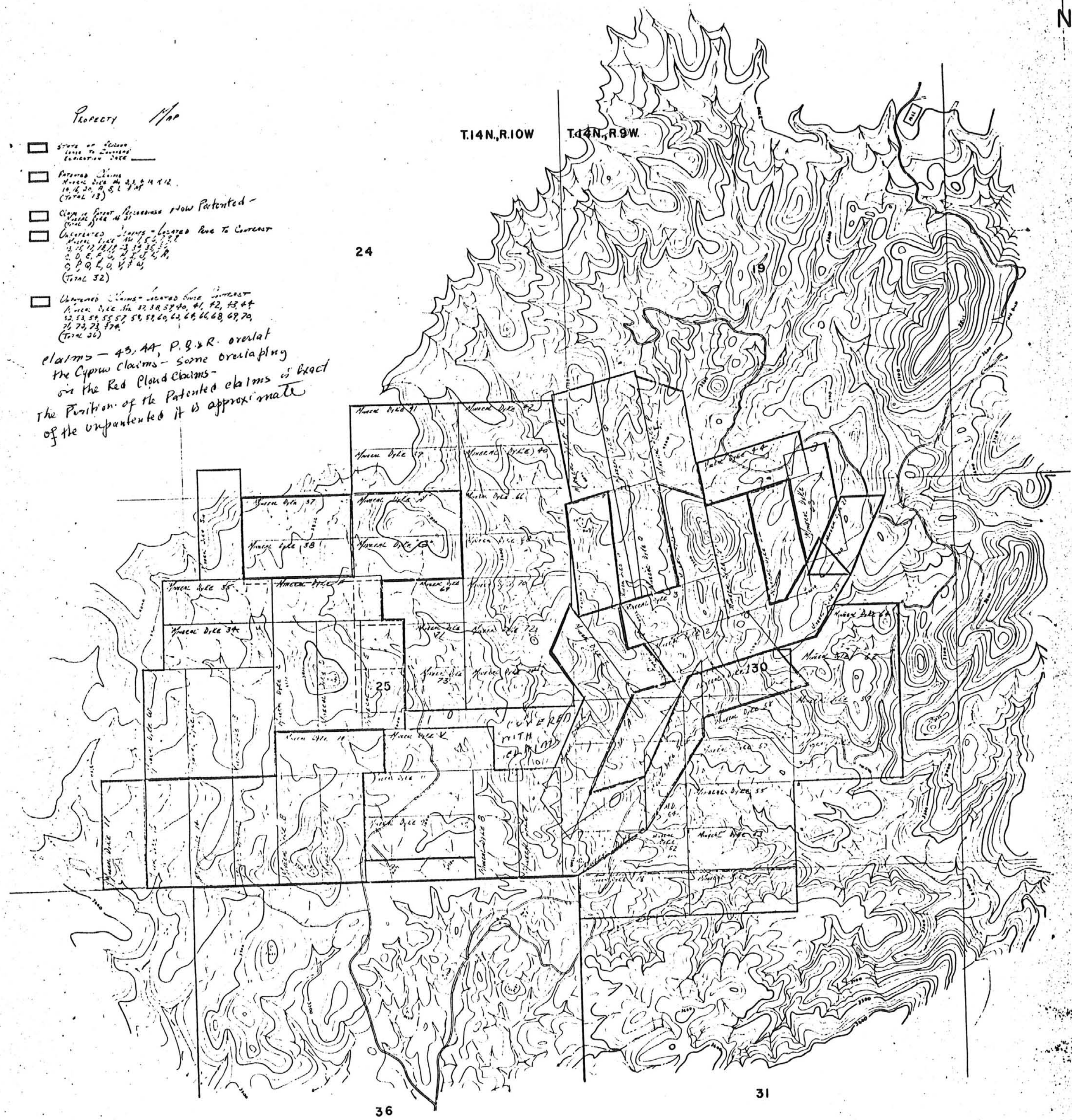
~~COPPEROPOLIS~~ MINERAL DYKE

ZANNARAS PROPERTY

YAVAPAI COUNTY, ARIZONA

SCALE 1"=500'
COUNT. INT. 20'

J.J. JUNE, 1965



MINERAL DYKE PROPERTIES

The Mineral Dyke Properties consist of a group of 70 Lode mining claims - (1400 acres) - of which 14 (about 280 acres) are patented claims - they are recorded in Prescott, Arizona, County Seat of Yavapai County.

Owners, owners of the properties are John Philip Zanneras, Constantine Philip Zanneras, and John Pierce Robinson, Jr., P. O. Box 500, Congress, Arizona.

The properties are located in Section 25 T., 14 N.R. 10W. Section 30 and 19 T. 14 N.R. 9 W. Gila & Salt River Meridian. We also have a prospecting permit from the State of Arizona for Section 36 (640 acres) T. 14 N.R. 10 W. C & S.R.M. all in Yavapai County, Arizona.

The properties are about 70 miles west of Prescott, Arizona, 110 miles N.W. of Phoenix, Arizona, about 40 miles N.W. of Wickenburg, Arizona, about 3½ miles southwest of Bagdad Copper Company (an open pit copper mine) and join the claims of the Cyprus Mines Co., who own and operate the "Old Dick" and "Copper Queen" mines; enclosed herewith is a Government map showing the relative position of the properties with the adjacent mines, also photostatic copy showing the patented and unpatented lode mining claims of the owners.

Our camp can easily be reached from Highway 93 from Wickenburg to Kingman at a point 5.3 miles from Santa Maria Bridge, there is a state dirt road No. 97 leading to Bagdad, from that point on Highway 93, our camp is about 7 miles, there are signs "Zannarapolis Mine" leading to our camp.

A detailed description of the grounds in which our properties are located is given by Dr. Charles A. Anderson in professional paper 278 of the U.S.G.S. entitled "Geology and Ore deposits of the Bagdad Area", Yavapai County, Arizona.

Mineralization of our Grounds - The mineralization of our ground is not similar to the mineralization of the Bagdad Copper Co. In other words, it is not a blanket deposit.

The mineralization is practically continuous through the length of our properties for a distance of almost 1½ miles, forming large ore bodies where faulting was favorable in opening sufficient channels for mineralized solutions. These ore bodies may be visualized as very large pipelike or chimney like vertically inclined structures.

There is extensive hydrothermal action all over our grounds with sericitization and chlorotization, extending all through our properties, geochemical investigation by this writer shows in the western portion of our properties strong copper anomalies in very large areas, in patented claims #11, B. 12, 14, 16. There is a possibility of containing as much as 500,000,000 tons of copper ore if the depth of the ore extends to the same depth of the adjoining mines.

Most of the outcrops are inconspicuous, covered with overburden and for this reason very recently we did extensive work with a bulldozer in an effort to uncover the outcrops under the overburden so as to get an idea of the existance and extent of the ore bodies.

The intrussive rock in the copper portion of our properties appear to be quartz diorite, and the minerals appear to be of massive type.

Zoning of Minerals. There is a lateral or horizontal zoning of the minerals in our properties. There is a zone of copper, a zone of copper and zinc, and a zone of pyrite, in the western portion of our properties which joins the Cyprus mines properties, there are strong copper-zinc anomalies.

A short description of the zinc-copper zones of our properties given below indicates of possibilities of containing hundreds of millions of high grade and low grade zinc-copper ores.

In patented claims Mineral Dyke No. 21, No. 20, and No. 2 there is an extensive and outstanding silicified pyritic zone about 3000 feet long and 300 - 400 feet thick. This zone is faulted probably by shear zones. Two places which are cleared with bulldozer show a gossan with geochemical analysis 1000 ppm zinc, and 500 to 650 ppm copper, the NE end of Mineral Dyke No. 21 is about 1000 feet from the end of Copper Queen of the Cyprus Mines.

In patented claims "Mineral Dyke" No. 2, No. 3 and A, there is a very large sericite zone following the end of the rhyolite intrusion for almost 1500 feet in this zone small dykes of rhyolite can be seen entering the bridal formation, in places the anomally is 200 feet thick, samples picked at random show 475 ppm zinc-copper 75-125 ppm - in my estimation if this area proves commercial it will be a very large area of lower grade ore. However, it is close to a copper anomaly of which the dimension we did not ascertain yet. (The background of the adjoining rocks is very low, sometime 20 ppm zone 20 ppm copper 20 ppm lead).

The following facts of our area are known by the operation of the adjoining mines to our properties "The Old Dick" and the "Copper Queen" owned and operated by the Cyprus Mines Company.

1st - It is clearly shown by Dr. Anderson's paper that the zinc-copper ores are formed in the silicified zone of the bridal formation (which according to Dr. Anderson consists of metamorfosed lava flows and interbedded tuff and other sedimentary rocks near the contact of intrusive rhyolites, pages 88-91 (our properies contain approximately 90% of the rhyolites in this area).

2nd - The depth of the ores are shown in the attached photocopy of the "paydirt" which shows that the depth of the ores in this area may exceed 2100 feet.

3rd - The Cyprus Mines Company in their operation of the "Old Dick" and the "Copper Queen" mines, have demonstrated that lower grade ore can be concentrated economically by heavy media separation. The Cyprus Mines, in their mill, crush the ore to 5/8" mesh and by H.M.S. reject all material less than 2.75 specific gravity, the concentrate from H.M.S. is ground in a ball mill and by differential flotation zinc and copper are concentrated.

Conclusions - The work of Dr. Charles A. Anderson clearly shows that the zinc-copper minerals are formed in the favorable host rock of the bridal formation near the rhyolite contact, in fact Dr. Anderson, whom I know more than twenty years, told me recently that he recommended in his paper, investigation of the grounds west of the "Old Dick" mine and in fact, he states in his paper as follows:

"The wide belt intensively altered volcanic rocks west of the diabase (Fig. 30) is a potential area for exploration because similar altered rocks contain the massive sulfide lenses of the "Old Dick" mine, page 89."

The U.S.G.S. investigation by Dr. Anderson stopped very close to the "Old Dick" mine because the funds of the appropriation for the investigation were exhausted and no mapping of our grounds was made."

In conclusion it appears to this writer that they exist sufficient elements to warrant possibilities for discovery of important ore bodies of zinc-copper and copper both of high grade as the ores of the "Old Dick" and the "Copper Queen", and most important the possibility of discovery of extensive lower grade ore bodies to be concentrated to the method of heavy media separation.

Water - about five miles north of our properties is Burro Creek, actually Burro is not a creek but a river having ten times more water than Santa Maria River, for seven months of the year unlimited amount of water can be diverted from the creek, being at present entirely free for use of mining, also water can be pumped from the creek and stored for dry months, or even a dam can be constructed upstream in Burro Creek. In our properties there is water, at 200 feet and raises to 70 feet from the surface, however, the amount of this water is at the present unknown/

10/11/66

John Philip Zammaras

MOUNTAIN COPPER CO. R.P.

R. Herzog
Ajo, Arizona

5/16 - 1st
Complete

1937 magma 32.7 T. 9,603.7 Lb.