



CONTACT INFORMATION  
Mining Records Curator  
Arizona Geological Survey  
3550 N. Central Ave, 2nd floor  
Phoenix, AZ, 85012  
602-771-1601  
<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

The following file is part of the G. M. Colvocoresses Mining Collection

### **ACCESS STATEMENT**

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

### **CONSTRAINTS STATEMENT**

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

### **QUALITY STATEMENT**

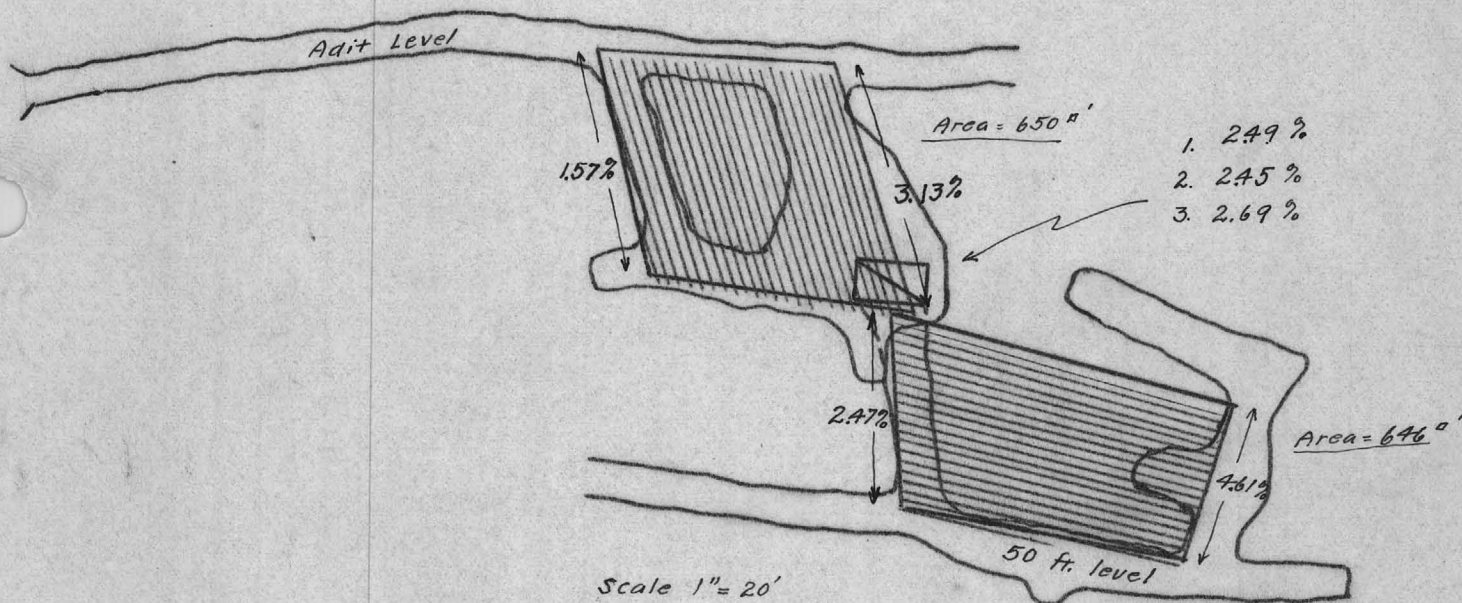
The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

*Put in Springfield file*

DATA ON GORILLA WORKINGS OF SPRINGFIELD GROUP,  
Crown King, Arizona.

Supplementary to Report by J. N. D. Gray.

Samples cut in the Gorilla workings as indicated on following sketch map gave assay results as shown:



The area of the ore body on the tunnel level is 650 sq. feet and that on the 50 ft. level is 646 sq. ft.

The above figures would indicate that there is developed between the two levels about 3,000 tons of positive ore which will average 2.80 % Copper.

*N. S. Wright*

*C*



*S. J. Smith* *Crown King folder* *copied m. 7.*  
SPRINGFIELD MINE, Crown King, Yavapai County, Arizona.

Geo. P. Harrington & Co., Owners. Randolph-Gemmill Devel. Co., Lessees.

A fairly good wagon road has been built from Crown King to the mine, about 4 miles N.W., by the present lessees.

Visited Octo. 13, 1916 and went thru the workings with Mr. C. N. Loring, Supt. The ore body is on a porphyrite belt, probably quartz monzonite. The ore consists of chalcopryite and chalcocite in bunches and seams. Not enough development has been done to determine the width of commercial ore. In the lower tunnel which is about 150' long is exposed an ore body four feet wide with almost pure chalcopryite in seams from half an inch to knife blade thickness. Next to this ore body is a wider belt of very lean ground; <sup>next to</sup> this about three feet of very bunchy chalcopryite, bornite and chalcocite. The total width of about 30' exposed by crosscuts in the tunnel would be quite low-grade but by sorting and cobbing, a moderate quantity of shipping ore could be obtained. I was informed that the ore shipped to Humboldt was a mixture of cobbled ore and "concentrate" obtained from a hand jig.

The Upper Tunnel 70' below the top of the hill is 50' above the Lower Tunnel and is connected by a winze. The strike of the quartz-monzonite is almost due North, Magnetic. Diorite crosses the strike of the quartz-monzonite and there is evidence of faulting in both tunnels.

The present intention of the operators is to determine the width of commercial ore by crosscutting and raising. They appear to have some hope of developing a large "porphyry copper" ore body but the present indications are that any considerable width will be too low-grade to be commercial.

*S. M. C.*