



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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James Doyle Sell Mining Collection

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AMERICAN SMELTING AND REFINING COMPANY  
Tucson Arizona

September 20, 1961

Mr. C. P. Pollock, Exploration Manager  
American Smelting and Refining Company  
120 Broadway  
New York 5, New York

HUNTING GEOPHYSICAL SERVICES, INC.  
San Carlos Indian Reservation, Arizona

Dear Sir:

Reference is made to your letter of September 15, regarding the above subject.

The San Carlos Reservation is rather inaccessible and it consists mostly of post-mineral volcanics. Mr. Courtright has made aerial reconnaissance flights over the area, and he and others have made short ground expeditions in some parts of it beginning ten or more years ago. The objective of this reconnaissance work was to find windows in the post-mineral rocks which might expose mineralization. Although nothing of interest was found, and we do not regard the area as meriting further reconnaissance under ordinary circumstances, the area does have a very long range chance of containing porphyry copper mineralization. The Safford district is within a few miles of the southeast corner of the reservation.

Since you will see the Hunting data, I would make the following suggestions:

(1) To be really useful their geologic map should make distinction between pre- and post-mineral rocks. If areas of pre-mineral rocks are extensive, that would be something new to us, and any alteration zones within those areas would be of particular interest.

(2) I would be skeptical of any geophysical data because, (a) the post-mineral rocks well may be thick and probably would contain units such as andesite with strong but erratic magnetic properties, and (b) there could be interbeds of clayey tuffs which might give high I. P. responses. Also the rock types and structure beneath the post-mineral volcanics could be so complex that any interpretations of buried pre-mineral geology by geophysical data done would not be valid.

(3) I can see no application for geochemical procedures unless tests were made on actual pre-mineral rocks. Even then, geochemical data could be of questionable usefulness.

C. P. Pollock

September 20, 1961

(4) Diamond drill hole information would be of interest only if actual disseminated sulphides or the leached equivalent were cored.

From the foregoing it is apparent that we are doubtful that Hunting has anything of interest to us.

Yours very truly,

Original Signed by  
K. Richard

**KENYON RICHARD**

KR/z

cc: DJPope  
RJLacy  
JHCourtright 