

GEOCHEMICAL SURVEYS

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September 27, 1967

Dr. Richard T. Moore
Arizona Bureau of Mines
University of Arizona
Tucson, Arizona

Dear Dick:

Enclosed are maps covering fifteen sections in the Tombstone area. These five maps each show the forty-seven locations where samples were taken at approximately six foot depths using a Carey drill and reverse air circulation to obtain the cuttings. Each sample point is numbered above and to the left of the small circle. The numbers in larger print below and to the right show the results of analysis for copper, silver, lead and zinc, using a Jarrell-Ash Spectrophotometer. These are shown in parts per million. Mercury was measured by means of a "sniffer" based on designs furnished by the USGS in Denver and these analyses are shown in parts per billion.

Resampling of three additional points near #37 indicate no measurements above normal background for any of the five trace elements, suggesting that contamination produced the original high values shown.

We expect to attempt to get an option to lease the claims in the immediate vicinity of points 28 and 29 and to take very close-spaced samples between the two. Until such time as we have tied up this property we, therefore, ask that you keep this information confidential.

Further lab results have shown additional anomalously high lead and mercury values in Section 19 of T 16 S, R 10 E, Pima County. The incidence of six such points suggests that contamination of the area may not be as much of a factor as we had originally thought. By the way, I notice that a water well is shown in the SW corner of Section 19 but Mrs. White did not have any data on it. If you know who might have such information we would like to contact them.

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The Lausen paper on mercury at Lee's Ferry described mercury as high as .005% or .1 lb./ton. The St. George area has turned up samples ranging in content from .25 lb./ton to 6.4 lb/ton. This is so much closer to commercial grade that it is probably in another category altogether.

I wish I could tell you definitely when I plan to return to Tucson but the best I can do at the moment is say that it will be within the next two to three weeks.

Best regards,

GEOCHEMICAL SURVEYS

A handwritten signature in cursive script, appearing to read "Phil".

Philip B. Stewart

PBS:sg