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April 12, 1980

To: Walter E. Heinrichs

From: William C. Hirt

Subject: Property examination for the Cox brothers

Ronald Cox - Phoenix, AZ; Jim Cox - Hanagan's Meadow, AZ (brothers)

Randy Cox - Morenci, Arizona - Jim's son

Ron Cox picked me up at the office at 8:15 AM on April 12, 1980 and took me to the area of his mineralization in the NW 1/2 T13S R18E in the Rincon Mountains. We met Jim and his son there, and Ron and Jim showed me their mineral showings.

The country rock consists of granite, sandstone & quartzitic sandstone, limestone, and marble.

Mineralization consisted mostly of spotty chrysocolla and malachite with hematite and limonite along fracture surfaces:

- a. in quartzite and quartzitic sandstone at the contact with a quartz diorite dike.
- b. in quartz-hematite (some hematite derived from pyrite and chalcopyrite) veins at the contact of granite and a weathered diabase dike; also in a quartz vein about 1' wide above the quartzite/quartzitic sandstone (see c).
- c. in a massive quartzite/quartzitic sandstone at least 20' thick in the bottom of a wash. The Cox brothers reported that small shipments were made to ASARCO's Hayden smelter from here.
- d. in limestone in a brecciated and argillized fault zone about 12 feet wide. The fault zone had been tested by a caved adit about 20' long.

The granite, sandstone, quartzite and limestone are unaltered and carry no disseminated pyrite or other sulfides. No mineralization was noted in the marble.

We also found a veinlet 1 to 3 inches wide, dipping sub-vertically, in unaltered limestone. The veinlet carries chalcopyrite, pyrite, hematite, copper oxides, calcite and quartz. The veinlet was exposed in a wash and had been tested for width by 3 or 4 horizontal drill holes about 1 1/2 inches in diameter.

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From: W. C. Hirt
April 12, 1980
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I advised the clients that there are four possible targets in this geologic setting: sulfide veins, porphyry copper deposits, pyrometasomatic deposits in the limestone (skarn) and copper-bearing silica flux in the quartzite and quartzitic sandstone. I also told them that the lack of alteration and disseminated sulfides, the narrow width of the sulfide vein we found, and the spotty nature of oxide mineralization in the general area were not encouraging. I told them no heavy investments in prospecting are warranted at present, but that if they chose, they could do the following "on the cheap":

- a. check the tonnage of the massive bed of copper oxide-bearing quartzite/quartzitic sandstone and see if San Manuel, Asarco, or Phelps Dodge would be interested in this material as flux.
- b. look for more sulfide veinlets like the one we saw by walking over the outcrops in washes (to check for possible mineral veins or stockwork porphyry copper).

We returned to the office at 4:15 PM. I charged the client for 8 hours less 1 hour lunch = 7 hours. Ron Cox paid me \$175 in cash. I wrote him a receipt under Heinrichs GEOEXploration and signed it.

Mr. Cox advised me that he may bring some samples from an area near Douglas into the office for our examination (possibly Cu-bearing hematite).

William C. Hirt

William C. Hirt