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July 12, 1977

Mr. Lance W. Pape
817 Anderson
Thatcher, AZ 85552

Dear Mr. Pape:

Thank you for your letter of June 10 and the report on HWR Claim Group. I am somewhat familiar with the property when Essex had its Safford office.

We currently do not plan any exploration projects in your particular area. However, if I am in your area in the near future, I will make an effort to contact you to discuss the property and make a visit in the field.

Very truly yours,

E. Grover Heinrichs

EGH:rw

June 10, 1977

G. Heinrichs, Manager
ESSEX Group United Technology
1802 W. Grant
Tucson, Arizona 85705

Dear Mr. Heinrichs:

Enclosed is a preliminary report on the HWR claim group, a copper porphyry prospect located in the Gila Mountains approximately 15 miles from the Safford Phelps Dodge project and the Kennecott Safford property.

This area has had recent exploration activity by Inspiration Consolidated Copper, AMAX, Phelps Dodge, and Kennecott. Please review the report as submitted and if interested, contact one of the three names listed below.

We hope ESSEX will consider this excellent copper prospect.

Respectfully submitted,



Lance W. Pape
M.S. Economic Geology
Thatcher, AZ 85552

LWP/mr

Lance W. Pape
817 Anderson
Thatcher, AZ 85552

Raymond Rhodes
General Delivery
Ft. Thomas, AZ

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915 13th Street
Safford, AZ 85546

PRELIMINARY GEOLOGIC REPORT ON THE HWR CLAIM GROUP

FT. THOMAS QUADRANGLE, ARIZONA

Introduction

The HWR Claim Group is a continuous block of 5 claims located 35 miles northwest of Safford, Arizona (8 miles north of Fort Thomas) along the west side of the Gila Mountains. The claims are located at the head of Day Mine Wash where altered andesite to monzonite outcrops at the base of the Gila Mountain volcanics (rhyolite to andesite overlain by basalt flows). The area has undergone alteration which grades in a bulls-eye pattern from a central phyllic, to argillic, to propylitic alteration over a seven square mile area. Abundant casts and staining of iron sulfide mineralization with trace occurrence of copper oxide are found in the claims area. At present, ground is open on three sides of the HWR claims.

General Geology

Structure -- The controlling structure in the area of interest is the Butte fault, a high angle, normal, south-westerly-dipping fault which borders the west side of the Gila Mountains and is responsible for uplifting the Gila Mountain volcanics and exposing a window of andesite-monzonite at the base. This same structure is believed to be the fault which controlled the emplacement and limits of the Phelps Dodge discovery north of Safford, as well as Producers Minerals' Peacock Mine ore body, etc. This fault line has been diagrammed by Wilson, et al. on the geologic cross-section 7-B, state maps -- Arizona Bureau of Mines. Cross-faulting at North 50° East (with minor displacement) has broken the area of interest into a series of irregular blocks with a general size of $\frac{1}{2}$ to $\frac{1}{2}$ mile square.

Lithology -- Two major rock types are exposed in the area of interest -- a layered sequence of volcanic rocks ranging from quartz latite to porphyritic andesite, and plutonic monzonite plugs and dikes. The coarse-grained intrusive rocks are small injection bodies into layered volcanics which are bleached in the vicinity of the intrusions. The above-mentioned sequence is overlain to the east, northeast, and southeast by the younger volcanic series of andesites and basalts (late tertiary) which post-date the older volcanic andesite series, monzonite intrusions, and mineralization. Altered limestone blocks rafted in the younger volcanic series are noted in the area with in-place limestone sequences exposed about four miles to the northwest and three miles to the southeast. Alluvium and younger andesite flows overlay the altered volcanic and monzonite sequence to the northwest and south.

Alteration and Mineralization

Three alteration zones are evident in the area of interest and form a bulls-eye pattern roughly centered about the Day Mine Windmill (refer to accompanying alteration map). The highest grade of alteration is phyllic, which covers an area roughly two square miles. Surrounding this alteration zone is a zone of argillic alteration which extends about two miles out from the phyllic zone to the north, south, and southwest, which becomes buried under volcanic cover or alluvium in other directions. Weak propylitic alteration is evident to the south and southwest beyond the argillic zone, the limits of which are also masked by alluvial cover. This bull-eye pattern is strikingly apparent from the air. In addition to a zonal alteration pattern, hydrothermal bleaching is evident along cross-faults and along the trace of the Butte fault, and casts with strong limonite staining and precipitation are evident at several fault intersections.

Frequent iron oxide casts with hematite-limonite staining and weak shows of crysocola have been noted within the area. Prospects to the east of the area reportedly have had spotty occurrences of calcocite but this has not been confirmed by the writer.

Land Status

Fifty-one claims have been validated and filed at the Graham County Courthouse, Safford, Arizona. At present, ground is open on three sides of the HWR claim group.

Previous Work

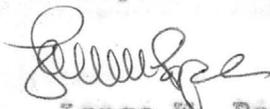
The area in question and adjacent areas to the south, southeast, and west were staked in 1965 by Bear Creek Mining Co., who staked in excess of four hundred claims and did extensive shallow drilling (100' validation holes), geophysical, and geochemical surveys in the area covered by the HWR claims. In addition, a 500' hole was drilled on the edge of the property by a firm reportedly under lease agreement to Phelps Dodge Corporation. Two geophysical crews have run surveys over the HWR claims since Bear Creek dropped their claims, one survey being run in April, 1971, by an unknown survey party from Salt Lake City, two weeks after the HWR claims were first papered.

In the 1972-73 assessment year, the HWR group was examined and leased by Mead L. Jensen Geophysics of Salt Lake with geochemical and geophysical exploration work done by Jensen and associates. In 1973, AMAX exploration out of Tucson staked approximately 280 claims on three sides of the HWR group and leased the property for the 1973-75 assessment years, running two sets of IP surveys, gravity and magnetics and drilling two holes, one about 1000' and the other 2556', both of which contained copper mineralization. Four additional drilling sites were prepared but never drilled, due to economic restraints and a change of hands for AMAX in 1975. In 1976, about a month after AMAX claims' expired, Inspiration Consolidated Copper staked approximately 160 claims over AMAXs', ran geophysics on a small area, then let their claims lapse in 1977.

Comparison to Similar Deposits

The HWR claim group has been located in an area where structure, rock types, and alteration zoning indicate an environment occurs which is similar to the environments encountered and presently being developed by Phelps Dodge, Producers Minerals, and Inspiration Consolidated Copper at their respective prospects in the Safford area. Those favorable characteristics include proximity to the Butte fault, on strike with the above-mentioned prospects and mine, monzonite intrusions in latite-andesite host rocks, and phyllic to propylitic alteration zoning. It is believed by the writer that the HWR claim group has the target prerequisites for a potential copper porphyry deposit. The claim group and surrounding land is open for inspection and investigation by your company.

Respectfully submitted,



Lance W. Pape
HWR Claims Group

LWP/mr

