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Mr. Kinnison

Dr. T. F. O'Neill
Oakland, California

December 3, 1970

John E. Kinnison
Tucson, Arizona

Dr. J. J. Durek
File
Blue

Blue Crystal Copper Property,
Graham County, Arizona

The attached letter is self-explanatory and I also append an abstract of data gathered from verbal conversations with Mr. Peters, and from Bill Lacy's brief report.

The proposal is an interesting one and is promoted by Lacy who, in reference to the post-ore mineralization, uses the phrase "late leakage." This term is a favorite of Lacy's, and he has used it in so many different contexts that I really wonder whether or not he fully appreciates the vagueness and generality implied by such a term.

I pass these comments on largely for Dr. Durek's benefit as he is an old hand in that district.

JEK/bl
Encls.

P. O. Box 3605
903 University Boulevard
Tucson, Arizona 85722

December 3, 1970

Mr. Clyde Peters
3150 East Behan Street
Tucson, Arizona

Blind Subject: Blue Crystal
Copper Property, Graham County,
Arizona

Dear Mr. Peters:

I have carefully reviewed the data on your Blue Crystal claims which you submitted last September. The proposal that the thin copper-bearing veinlets and areas of pyritic alteration in the post-ore volcanic rock could serve as an exploration guide is an interesting one. However, I believe there is no argument that a rather wide zone extending northeasterly from the deposits near Safford to the Morenci area is probably a major structural feature of considerable size. Therefore, it is my opinion that mineralization in the post-ore volcanics could derive their source from anywhere along this major structural zone without necessarily reflecting the exact location of previous mineralization in the earlier rocks. Furthermore, the previous holes which penetrated pre-mineral bedrock are not at all encouraging.

Accordingly, I do not plan to take any further action in the connection with your property and this letter will serve to advise you of this decision. I appreciate the fact that you have an interesting geologic theory, bolstered by the opinion of Dr. Lacy, and I wish you success in your attempt in further exploration.

Yours very truly,

John E. Kinnison
Regional Geologist

JEK/bl

b.c.c. Dr. T. F. O'Neill
Dr. J. J. Durek
File
Blue

NOTE FILE ON "PORPHYRY COPPER" Property: Blue Crystal

Location: East of Bonita Creek between Lone Star (Kennecott) and Morenci

District: Lone Star
 Mt. Range Gila
 County: Graham
 State: Arizona

<p>Source of Information</p> <p><input type="checkbox"/> Field Observations</p> <p><input type="checkbox"/> Publications</p> <p><input type="checkbox"/> Company Files</p> <p><input checked="" type="checkbox"/> Other</p>	<p>Explanation: Submitted by Clyde Peters. Geologic report by W.C. Lacy, previously drilled by Amax (2 holes) and P.D. (3 holes). Post-ore volcanic cover over entire area. Theory advanced is that weak Cu veinlets and a kaolinized-pyritized patch of volcanics could be an indication of pre-volcanic mineralization which followed the same path.</p> <p>Reviewed by: John E. Kinnison Date: September 1970</p>
<p>Recommended Company Interest Classification:</p> <p><input type="checkbox"/> Active</p> <p><input type="checkbox"/> Possible</p> <p><input type="checkbox"/> None</p> <p><input checked="" type="checkbox"/> Scientific</p>	<p>Qualifying Remarks: JEK conclusion: weak post-ore mineralization could permeate <u>anywhere</u> along the Safford-Morenci zone, not necessarily over a former mineralized area. Best area had been drilled and penetrated barren monzonite. Kaolinized volcanics may well be volcanic-associated feature.</p>

MINERALIZATION

Alteration and Metallization: Volcanics are cut by veinlets and short fissures, 1/4" - 2" wide, of quartz, contain chalcocite (probably hypogene), oxidized to chrys. These are widely separated but form a distinct zone 3000' x 2000' approximately. To the south, Lacy maps a zone of kaolinization and lim/pyrite, limits undefined. This area is now incorporated in the Blue Crystal claim group.

Leached Outcrops: None of pre-ore rock. Quartz veinlets in volcanics show chrysa-colla oxidizing from chalcocite.

Enrichment: None

Associated Metal Deposits: None in volcanics. Claims are in the Morenci-Safford mineral zone.

STRUCTURE

Fissures: Main feature in Bonita Creek fault, which strikes northwest and drops 2000+ feet of Gila conglomerate against volcanics on the east side.

Intrusives: Monzonite, unmineralized, penetrated in DDH BC-1 and BC-2 (located central area of claims), at about 1200 feet.

Breccia Pipes: Not known with certainty. BC-5 log "Bx w/monzonite fragments, 834-2325'." Could be volcanic assoc. diatreme of post-ore age. Volc. Bx mapped at surface near hole.

Cover Rocks: Thick section volcanics.

DEVELOPMENT, PRODUCTION, FACILITIES, ECONOMIC POSITION, ETC.:

Date: December 1, 1970

By: John E. Kinnison
 John E. Kinnison

June 10, 1965

Mr. Paul Winkler
State Farm Insurance Company
618 5th Street
Safford, Arizona

Dear Mr. Winkler:

This will confirm your conversation of recent date with Mr. Courtright here in Tucson. I am very sorry to say that, having reviewed the data and drill cores you have on hand, we feel that the inherent risks in exploring the Winkler-Faulkner ground which you recently offered to us for consideration, are too great in our opinion. Therefore, I am returning Mr. den Baars' magnetic map to him; however, I have misplaced in my files the other map concerning various claim locations in that general area. When I find it I will return that also to Mr. den Baars.

It has been a pleasure for me to deal with you and Mr. Faulkner concerning a group of claims in which the information has been prepared so clearly and presented so forthrightly. We have given the matter careful consideration, and it is my regret that we could not reach a favorable conclusion. The drill core which I examined has most certainly penetrated the rhyolites which overlie all of the mineralized ground in the Phelps Dodge-Kennecott area. The thickness of these volcanic layers is very great at places, and although I am aware that your personal belief is that it will be very thin on the ground which you offered to us to consider, it is well to remember that nothing short of the actual penetration by a drill hole into mineralized rock will take the place of the best geologic guesses.

If at some future date you do penetrate the post-mineral volcanic sequence and drill into mineralized rock, either obtaining rotary cuttings or drill cores, I will be happy to again review the situation.

Mr. Winkler

-2-

June 10, 1965

You stated that you wished to deal in an open, clear-cut manner, and with a decisive judgment forthcoming shortly. I trust that our action has fulfilled your wish. I do not have Mr. Faulkner's address, however I am enclosing a copy of this letter which I hope that you may be able to deliver to him.

Very sincerely yours,

ORIGINAL SIGNED BY
JOHN E. KINNISON

JOHN E. KINNISON 

JEK/jak
cc: Mr. Faulkner
JHCourtright

June 22, 1965

Mr. Dirk den Baars
6318 East Hayne Street
Tucson, Arizona

Dear Sir:

I wish to thank you for sending the two copies of maps pertaining to the Winkler-Faulkner claims which I recently examined. I have written Mr. Winkler stating that we have no interest at this time in their property.

I am returning to you, therefore, the copy of your magnetic map. The other map showing claims in the general area has been misplaced in our files, as I explained to Mr. Winkler. If I find it I will return this also to you.

Thank you for your kind consideration in this matter.

Yours very truly,

JOHN E. KINNISON ✓

JEK/jak

DEN BAARS & ASSOCIATES
MINERAL EXPLORATION AND RESEARCH CONSULTANTS

DRS. DIRK DEN BAARS
CONSULTING GEOLOGIST
ARIZONA REG. 4032

May 10th, 1965

6318 EAST HAYNE STREET
TUCSON, ARIZONA
AXTEL 8-3551

Mr. J.E. Kinnison.
ASARCO
813 Valley National Bank Bldg.
Tucson, Ariz.

Dear Mr. Kinnison:

In reference to our telephone conversation, I am sending you enclosed a copy of a magnetometer map and a claim map, showing the locations of the TV, MCM and Dixie claims.

These claims are owned by Mr. Paul Winkler and Ted Faulkner and associates. I am releasing these maps to you with their approval, you may return them to me or to Mr. Winkler at your convenience.

Please do not hessitate to call on me if I can be of further assistance in this matter.

Very truly yours,



Dirk den Baars.

cc: PW, TF

May 11, 1965

Mr. Dirk den Baars
6318 East Hayne Street
Tucson, Arizona

Dear Mr. den Baars:

This will acknowledge receipt of the two maps near Safford pertaining to the Winkler-Faulkner ground which I received today. I would like to keep these maps for two or three weeks so that our Geophysical Department may review the magnetic data, and I will return them at that time.

Thanking you for your efforts, I remain

Very truly yours,

JOHN E. KINNISON

JEK/jak
cc: Paul Winkler