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The following file is part of the John E. Kinnison mining collection

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M. W. Winters

NOTE FILE ON "PORPHYRY COPPER"

Property: Beehive Claims
District: Graham Mts.
Mt. Range: Greasewood Mts.
County: Graham
State: Arizona

Location: T 10 S and T 11 S
R 26 E
Sections 5, 6, 29, 30, 31, 32

Source of Information <input type="checkbox"/> Field Observations <input checked="" type="checkbox"/> Publications <input type="checkbox"/> Company Files <input type="checkbox"/> Other	Explanation: A one-day field examination. Reviewed by: Melville See Date: December 11, 1970
Recommended Company Interest Classification: <input type="checkbox"/> Active <input type="checkbox"/> Possible <input type="checkbox"/> None <input checked="" type="checkbox"/> Scientific	Qualifying Remarks: The property was reported by W. Soren, a mining engineer, to contain a large number of copper showings in volcanic rock. Because porphyry copper deposits may occur in andesite (Safford), it was felt that the Beehive claims could represent a legitimate porphyry copper prospect.

MINERALIZATION

Alteration and Metallization: Alteration is very spotty, and when present consists of epidotization and chloritization of a coarsely porphyritic volcanic rock. The volcanic may be the "Turkey Track" volcanic which is widespread over South Arizona and is considered to be post-mineral. Mineralization on the Beehive claims consists of erratic thin seams of pyrite and chalcopryrite along N and NE fractures in the volcanic. The sulphides have altered to oxidized copper products. The mineralization is weak, locally controlled, and there is no evidence of pervasive alteration or mineralization. Though of some scientific interest, the property does not have potential for a porphyry copper prospect.

Leached Outcrops: None.

Enrichment: None.

Associated Metal Deposits: None

STRUCTURE

Fissures: Joint directions: NE and NW

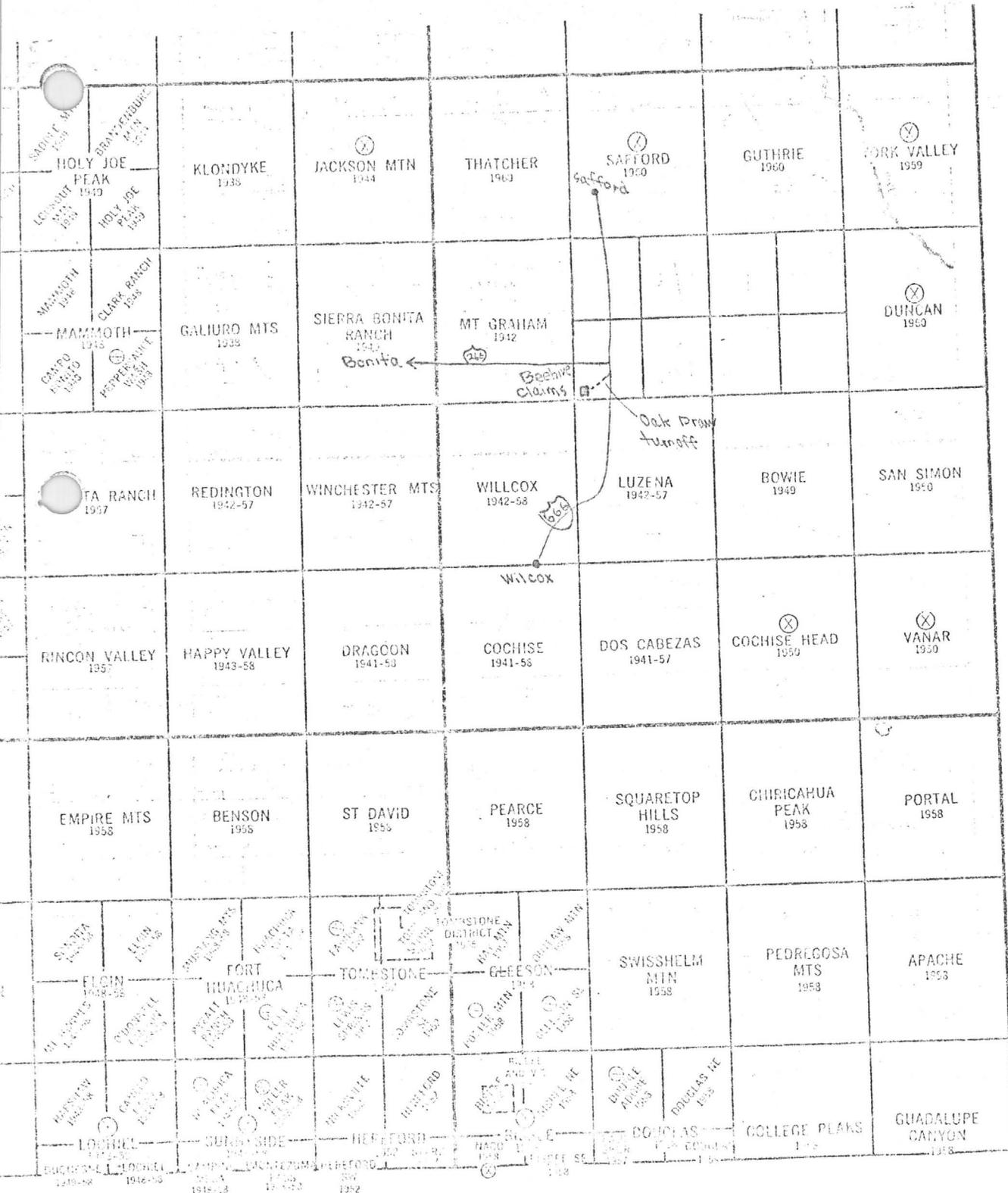
Intrusives: A granitic rock is present, apparently older than the volcanic. It varies from a porphyritic texture to aplite. Near contacts with the volcanic, the granite is more porphyritic. The granite is fresh and shows little or no signs of mineralization.

Breccia Pipes: None

Cover Rocks: Alluvium

DEVELOPMENT, PRODUCTION, FACILITIES, ECONOMIC POSITION, ETC.: One small adit, but no visible signs of past production.

33°



32°

110°

109°

ADDITIONAL INFORMATION CONCERNING THE PROGRESS OF MAPPING IN ARIZONA MAY BE OBTAINED FROM THE TOPOGRAPHIC DIVISION, U.S. GEOLOGICAL SURVEY, 345 MIDDLEFIELD ROAD, MENLO PARK, CALIFORNIA, 94025 OR THE MAP INFORMATION OFFICE, U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20542.

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

December 22, 1970

Mr. Wm. W. Sorsen
770 Sunset Drive
Globe, Arizona 85501

Dear Bill:

I wish to thank you for the opportunity to visit Milbert Elmer's Beehive claims south of Safford. As you know, our Mr. See was on the ground the day of December 11th.

Mr. See made a thorough reconnaissance of the property, and I now have his report before me, and have discussed his findings with him in person. He concluded that the mineralization is not sufficient to interest our company, and I concur with this decision. Accordingly, we will take no further action with respect to that property.

For your interest, Bill, I studied the samples, which Mr. See brought back and it seems to me that the rock type and mineralization is decidedly different than the mineralization in andesite north of Safford. I suspect, although I cannot be sure, that the andesite on the Beehive claims may correlate to the rather coarse-grained and diagnostic "Turkey Track" andesite--a volcanic unit of post-ore age which is rather widely distributed farther to the west.

However, I wish to thank you for considering Kaiser, and I wish you luck in any further efforts which you make to place the property. I hope to stop by and see you some time when I am passing through Globe.

Yours very truly,

John E. Kinnison
Regional Geologist

JEK/bl

b.c.c. J. J. Durek
File
Blue

Blind Note: Bill Sorsen is a mining engineer, in Globe, whom I knew in 1955 and 1956 when he was a consultant for uranium exploration in the Sierra Ancha of Central Arizona. At that time, I had a rather high opinion of his ability to size up a mineral prospect. The Beehive claims, however, in the Greasewood Mountains of Graham County, was found by Mr. See to be a very poor prospect indeed. There are a few scattered copper oxides in andesite, and Sorsen had compared these to the deposits in andesite at the San Juan and other deposits north of Safford. The andesite may be post-ore and underlying granitic rock is unaltered, and mineralization in the andesite is too weak and sporadic to be of interest.