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PRELIMINARY REPORT
HAYE COPPER PROSPECT
MARICOPA COUNTY, ARIZONA

CHAPMAN, WOOD AND GRISWOLD, INC.

G. R. Griswold

G. R. Griswold

March 1971

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EXHIBITS:

INTRODUCTION

In accordance with the request of Mr. J. P. Mathieson, Mora Route, Box 115, Las Vegas, New Mexico, Mr. G. R. Griswold of Chapman, Wood and Griswold, Inc., 4011 Silver Avenue, SE, Albuquerque, New Mexico, has examined the Haye copper prospect in the Cemetary Ridge Mountains, Maricopa County, Arizona.

The purpose of this examination was to determine if the 65 mining claims held by Mr. Stan Haye et al, warranted investment of high risk capital.

The property was examined on the afternoon of March 26, 1971.

Acknowledgment is made to Messrs. J. P. Mathieson and Stan Haye for their courtesy and assistance during the visit to the property.

SUMMARY AND CONCLUSION

1. Mr. Stan Haye and associates have located 65 lode mining claims on Federal and State lands in Sections 29, 30, 31 and 32, T. 1S., R. 10W., Maricopa County, Arizona. The property lies approximately 90 miles southwest of Phoenix, Arizona, on the north slope of the Cemetary Ridge Mountains.

2. The general geological setting consists of Precambrian granite and schist within the southern part of the claims and volcanic rocks probably of Cretaceous age in the northern area.

3. Bulldozer trenching has disclosed two occurrences of oxidized copper mineralization. One occurrence is a north-south vein 8" to 12" wide, dipping 61° southwest which contains malachite, azurite and chrysocolla. The vein is exposed over only 50 feet of strike length and is cut off by andesite on the north and tuff on the south. The vein occurs in a steeply dipping shear zone in sediments or tuff. The second occurrence of oxidized copper mineralization is in a highly altered brecciated andesite of very limited areal extent. Neither of these occurrences are of economic significance, but they do indicate the presence of copper in the general area.

4. The Clanton water well, in Section 25, T. 1S., R. 11W. one mile west of the claimed area, is reportedly 750 feet deep and should be sampled and assayed geochemically to determine if anomalous copper values are present in the ground water.

5. A staged exploratory program for Township 1 South, Range 10 and 11 West has been outlined under Recommendations for high risk capital which can be written off as an exploration expense.

RECOMMENDATIONS

The following program should be considered only if high risk capital is available and the costs can be written off against taxable income as an exploration expense:

A.	Geologic reconnaissance of T. 1S., R. 10 and 11W., 1 week	$ 1,000
B.	Detailed geologic mapping of target area, 1 week	1,000
C.	Obtain water sample from reconditioned Clanton well for geochemical assay	500
D.	Geophysical survey - 10 miles Induced Polarization Survey, 1 week	5,000
E.	Drilling geophysical targets, if any	100,000

Each step of the above program would be dependent upon encouraging results obtained from the previous step.

If the results from the first four stages of the program were favorable, it would then be probable that a major mining company could be interested in spending the large amounts of capital required for continued exploration and possible exploitation.

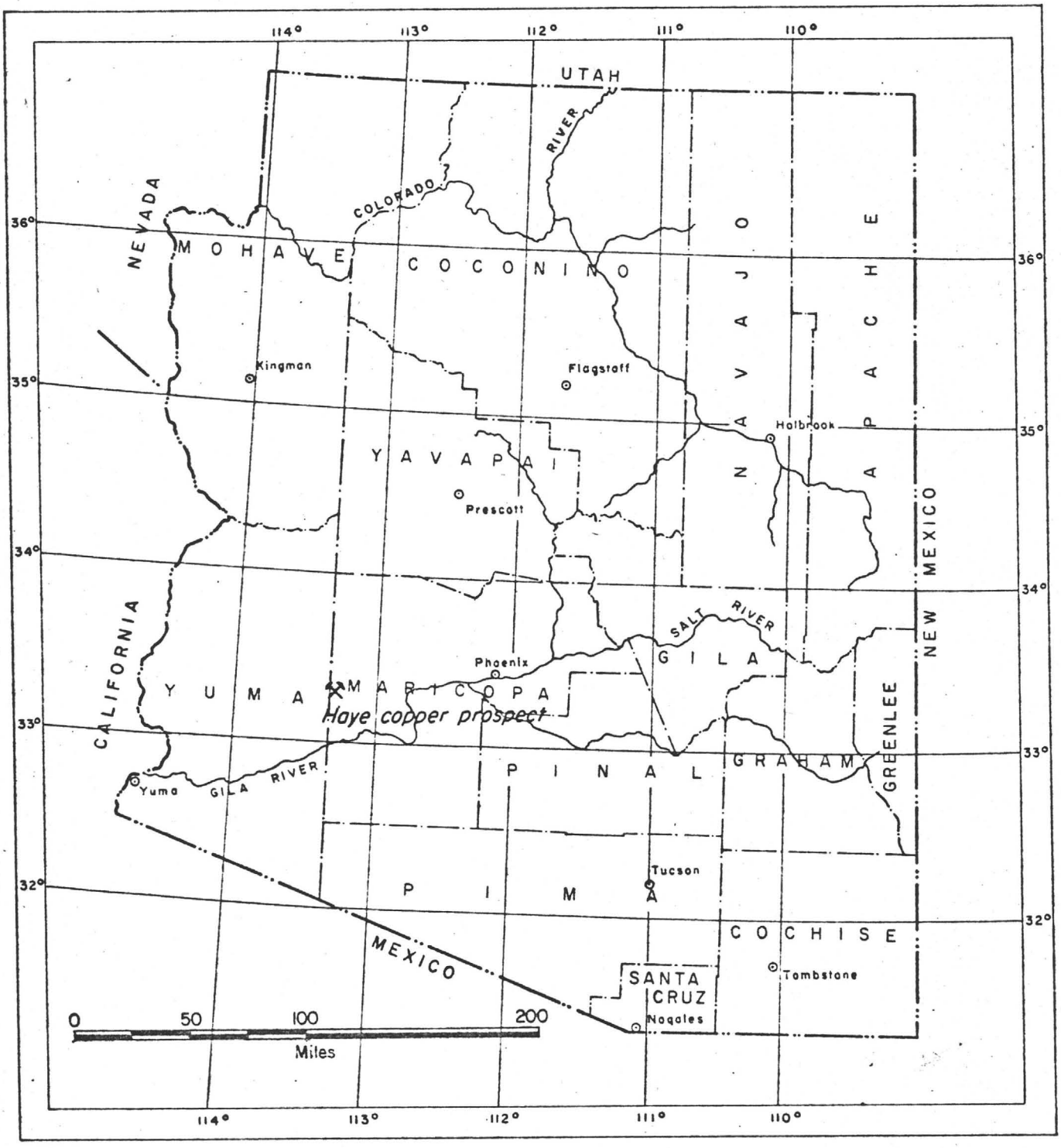


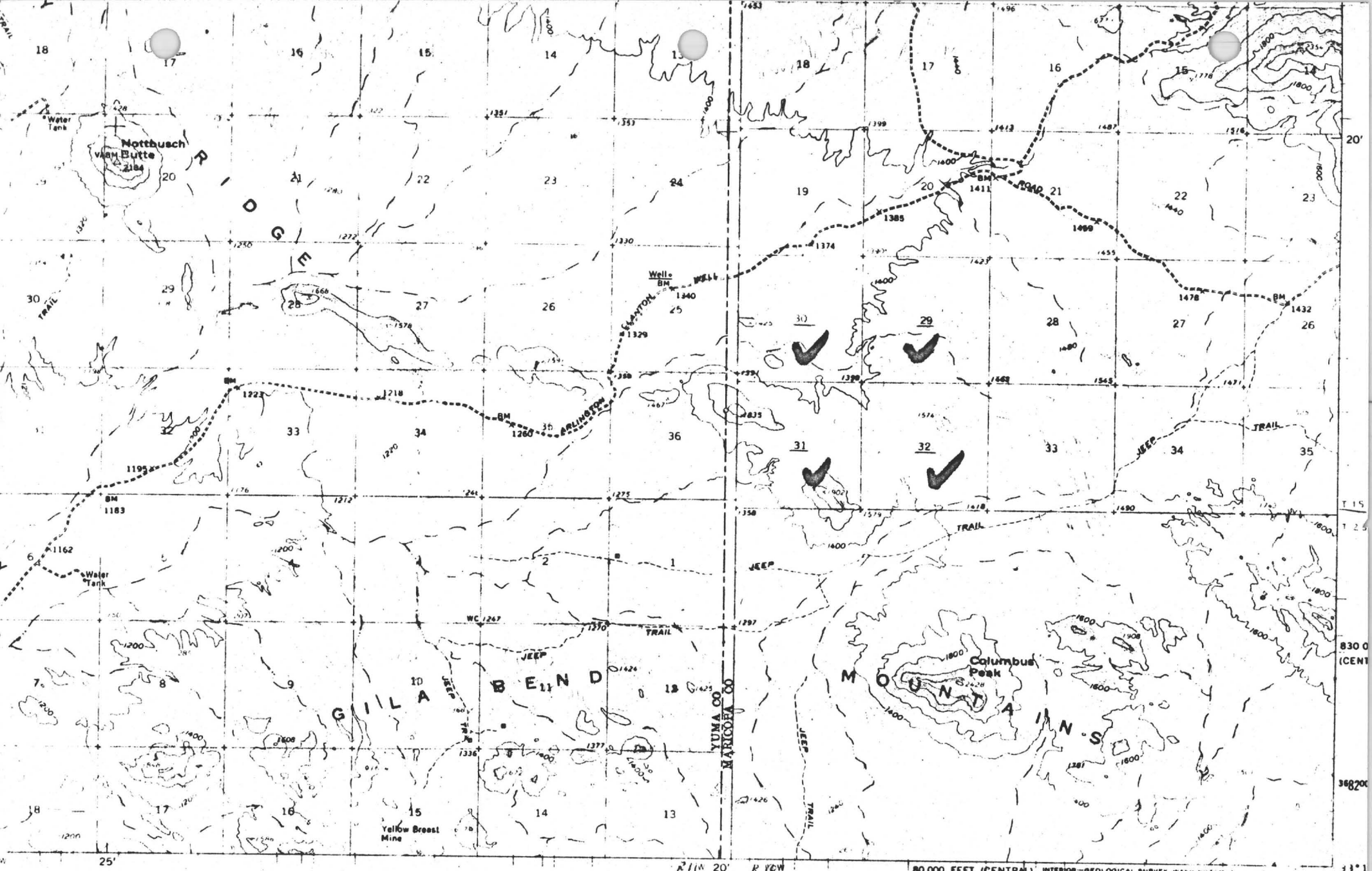
Figure I. State of Arizona, showing the location of the Haye copper prospect.

LOCATION AND DESCRIPTION

Sixty-five lode mining claims have been located by Mr. Stan Haye and associates in portions of Sections 29, 30, 31 and 32, Township 1 South, Range 10 West, Maricopa County, Arizona. The Federal Government owns the surface and mineral rights in Sections 29, the S/2, S/2 Section 30 and Section 31. The State of Arizona owns the surface and mineral rights in the N/2 and the N/2, S/2 of Section 30. The Federal Government owns the surface rights in Section 32 and the State of Arizona owns the mineral rights. The claims located on Federal Government lands are well marked with posts painted white, while those claims located on State lands have posts painted orange. A plat showing location of the claims was not obtained by the writer, but Mr. Mathieson stated that such a plat is available.

The property is reached by driving west from Phoenix 32 miles to Buckeye; thence northwest through Tonopah to the settlement of Saddle Mountain some 46 miles; thence southwest approximately 12 miles to the property. A portion of the Eagletail Mountain topographic map showing the general location of the property is included as an exhibit in this report.

The accompanying photographs show the typical characteristics of the desert terrain.



SCALE 1:62 500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Unimproved dirt

QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

EAGLETAIL MTS., ARIZ.

GEOLOGY

There is no published detailed geology in this particular area. The Geologic Map of Maricopa County prepared by the Arizona Bureau of Mines at a scale of 1" = 6 miles shows remnants of young basalt on Precambrian granite and gneiss in Sections 29, 30, 31 and 32, T. 1S., R. 10W.

A sketch map has been prepared showing the general geology in the vicinity of the bulldozer trenching in Section 29. The accompanying photographs show the principal areas of interest.

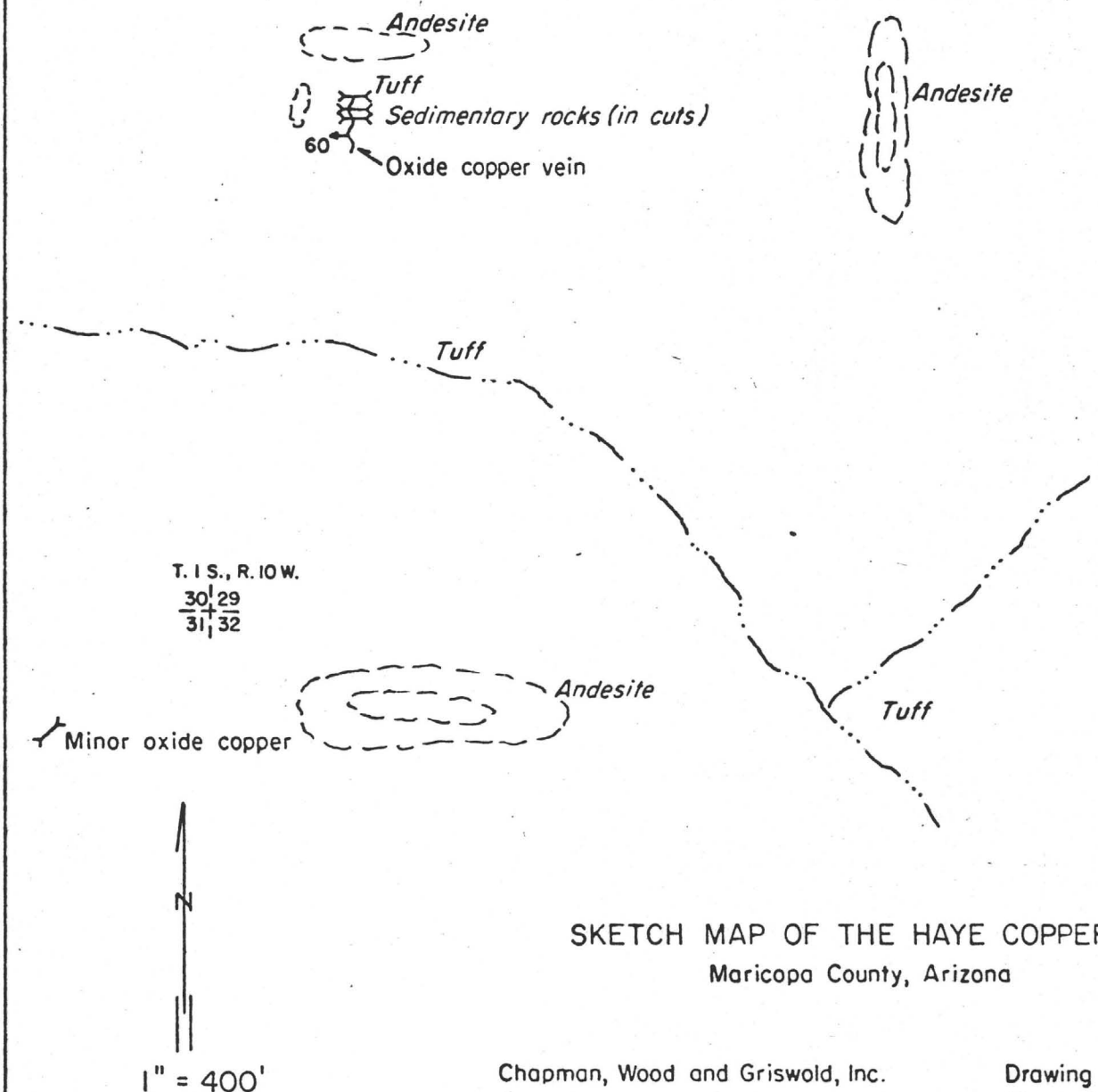
The geologic setting in Section 29 consists of andesite knolls and tuffs of volcanic origin. Three east-west bulldozer trenches over an area 50 feet wide from north to south have exposed an 8" to 12" wide vein containing oxidized copper mineralization in the form of azurite, malachite and chrysocolla. The vein which strikes S10°E and dips 61° southwest occurs in a shear zone of uptilted sedimentary rocks. The calcareous sandstone adjacent to the vein contains epidote indicating hydrothermal alteration. The copper mineralization occurs over a short distance of less than 50 feet and feathers out to the north against the andesite and stops abruptly on the south in a light colored volcanic tuff.

Minor oxidized copper mineralization has been exposed in a bulldozer trench in altered volcanics some 500 feet southwest of the section corner as shown on the map.

The age of the volcanics and sediments (?) is believed to be Cretaceous. The copper mineralization appears to be younger than the volcanics. The Laramide (?) age of mineralization which is thus suggested is an encouraging aspect.

The area within one mile to the south of the copper prospect is geologically complex with Precambrian granites, limestones, and possibly other rock types. No surface indication of copper mineralization was observed. The general area shows evidence of structural deformation, the significance of which might be determined by detailed mapping.

The geologic environment is considered favorable for copper mineralization, but the showings to date are very meager. The general area of Township 1 South, Range 10 West appears worthy of geologic study although the ground covered by the Haye claims may or may not be the most favorable locality in which to search for a copper orebody.



SKETCH MAP OF THE HAYE COPPER VEIN

Maricopa County, Arizona

1" = 400'

Chapman, Wood and Griswold, Inc.
Albuquerque

Drawing No. 821
March, 1971