



CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the
James Doyle Sell Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

May 26, 1972

J. H. C.

MAY 30 1972

TO: W. L. Kurtz
FROM: G. J. Stathis

Copper Hill Prospect
Ripsey Mining District
Pinal County, Arizona

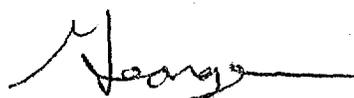
A review was made of geological, geochemical, and geophysical data and skeletal core from all 11 exploratory diamond drill holes was examined from subject property belonging to R. B. Crist of Tucson. The property is located about 5 miles west of Winkelman on the east slope of the Tortilla Mountains.

During the period 1969-71, the property was first explored by American Onex Mines, Inc. and then by the Continental Oil Company. Surface geochemical sampling, induced polarization and resistivity survey, and drill data indicate that the disseminated pyrite-chalcopyrite mineralization is related to the Laramide, sill-like bodies which intrude Precambrian Oracle granite. Three of the larger, sill-like bodies of granodiorite and diorite are shown, based on the CONOCO geologic map, on Plate 1. Dikes and sills of granodiorite, diorite, diabase, aplite, aplogranite, dacite porphyry, and rhyodacite also occur intruding the Oracle granite within the prospect area, but they are too small to show on the enclosed Plate. The granodiorite, according to CONOCO, is a zoned intrusive with a porphyritic chill or contact phase.

Results of the exploratory drilling indicate the following:

1. The granodiorite and diorite dip southerly and are underlain by the Oracle granite.
2. The granodiorite and diorite are generally less than 200 feet thick.
3. Shallow surface oxidation.
4. A low total pyrite-chalcopyrite environment which under surface oxidizing conditions resulted in no appreciable downward migration and subsequent enrichment of copper at depth.
5. No significant copper assays in the Laramide intrusive rocks or the Oracle granite.
6. Sulfide mineralization occurs in the Oracle granite, adjacent to the Laramide intrusive rocks, but decreases and locally ends at depth.

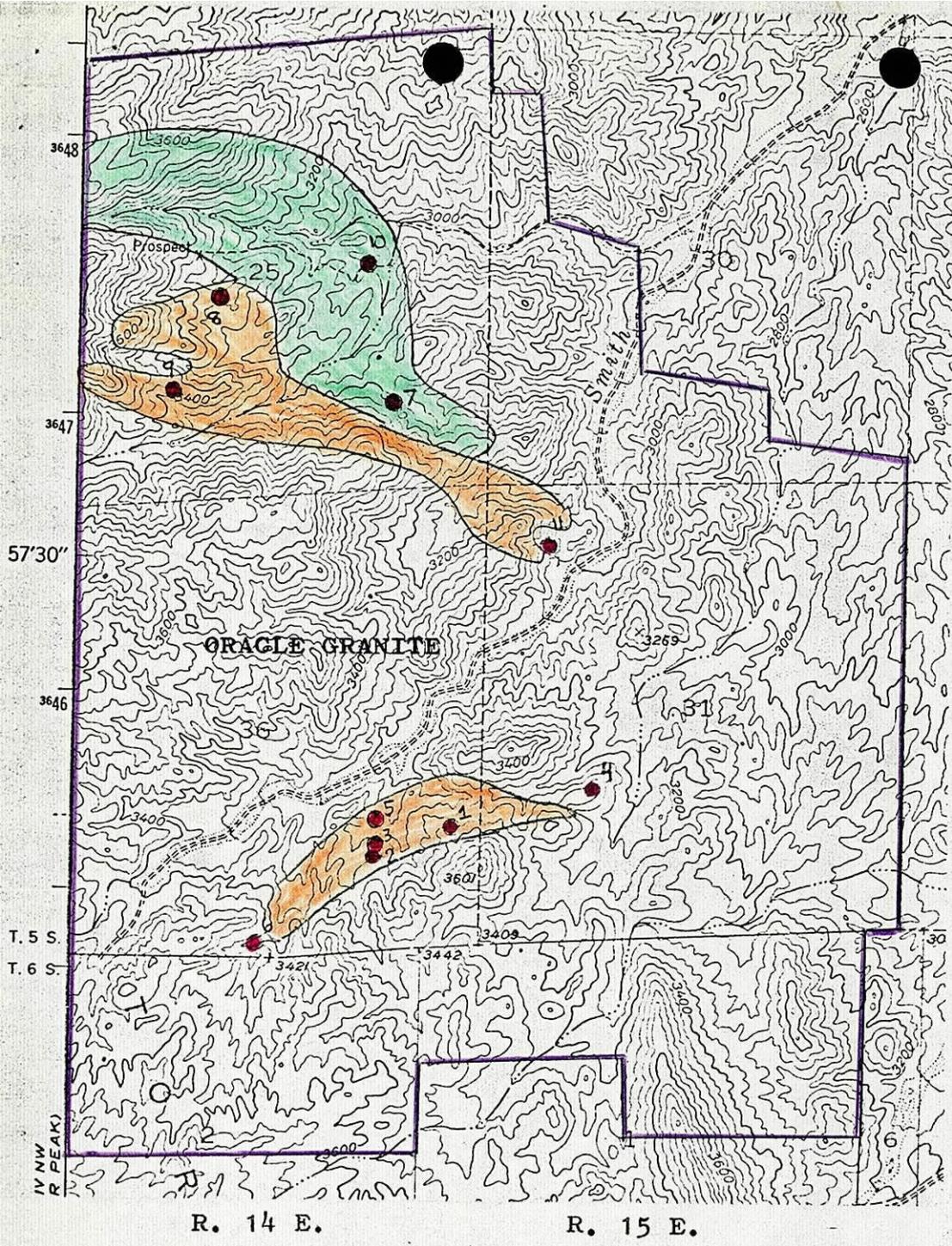
The prospect is of no interest to ASARCO.



George J. Stathis

GJS:sg

cc: RBCrist, JHCourtright



- LARAMIDE**
- Granodiorite
 - Diorite
 - Diamond drill hole site

AMERICAN SMELTING AND REFINING COMPANY			
AREA Tortilla Mountains		<i>State</i> ARIZONA	
TITLE Copper Hill Prospect		<i>county</i> Pinal	
<i>mining district</i> Ripsey		<i>township-range</i>	
<i>data by</i> CONOCO		<i>revisions-date</i>	
<i>drawn by</i> GJS		<i>map number</i>	
<i>date</i> May 72		PLATE 1	
<div style="display: flex; justify-content: center; align-items: center;"> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> <div style="margin-right: 5px;">0</div> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> <div style="margin-right: 5px;">2000</div> <div style="width: 100px; border-bottom: 1px solid black; margin-right: 5px;"></div> <div style="margin-right: 5px;">4000ft</div> </div> <p style="text-align: center; margin-top: 5px;">1:24000</p>			

TABLE 1
SUMMARY OF EXPLORATORY DRILLING

<u>FINAL DEPTH</u>		<u>DEPTH OF OXIDATION*2</u>	<u>DEPTH TO ORACLE GRANITE</u>	<u>SULFIDE OCCURRENCE</u>
<u>D.D.H.*1 #</u>	<u>Feet</u>			
1	1086	45'	127-228; 286 to bottom	Less than 1% 900-975'; no sulfide after 975'
2	320	60'	176	Sulfide to bottom
3	609	82'	156	Sulfide to bottom
4	477	87'	Collared in Oracle	Sulfide to bottom
5	424	40'	89	Sulfide to bottom
6	333-1/2	30'	0-135 then Laramide grd. to bottom	No sulfide after 300'
7	414	55'	260	Trace in Oracle granite
8	230	63'	All Laramide grd.	Sulfide to bottom
9	455	121'	323-388 then Laramide dior. to bottom	Sulfide to bottom
10	180	70'	133	No sulfide after 150'
11	527-1/2	50'	0-301; 445 to bottom	No sulfide after 445'

*1 Note: All diamond drill holes drilled by Continental Oil Corp. except hole #1 which was drilled to 650 feet by American Onex Mines, Inc., and hole #2 also drilled by American Onex

*2 Note: No chalcocite enrichment below zone of oxidation.

TABLE 2

COPPER ASSAY* SUMMARY

D.D.H. 1

0-780' = 0.0X%

780-855' = 0.00X%

855-1086' = No assays

Note: 100-220' = about 0.2%

D.D.H. 2

70-140' = 0.33%

140-230' = 0.0X%

D.D.H. 3

10-160' = less than 0.2%

160-609' = 0.0X%

D.D.H. 4

0-477' = 0.0X%

Note: Based on visual examination, I would expect the interval 110-180 to average 0.2 despite lower assay returns.

D.D.H. 5

0-180' = 0.0X%

180-290' = 0.00X%

290-380' = 0.0X%

380-424' = 0.00X%

D.D.H. 6

No assays -- Assume 0.00X% overall average

D.D.H. 7

No assays -- Assume 0.00X% overall average

D.D.H. 8

10-230' = 0.0X%

D.D.H. 9

No assays -- Assume 0.00X% overall average

D.D.H. 10

No assays -- Assume 0.00X% overall average

D.D.H. 11

No assays -- Assume 0.00X% overall average

* Rocky Mtn. Geochem. Assays (aa)