

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.

AMERICAN SMELTING AND REFINING COMPANY TUCSON ARIZONA

July 14, 1975

FILE MEMORANDUM

Black Diamond Mine Area South of Middlemarch Canyon Central Dragoon Mountains Cochise County, Arizona

Mr. William Hazel brought to our attention his group of "3 Oaks" claims in TI8S, R24E (Pearce 15' quadrangle), along with a two-page letter from Dr. Willard D. Pye, consulting geologist.

I spent one day going over the part of the claim group along the road from Black Diamond (site) to the Dragoon Camp.

Hazel's map (attached with report) shows 3 Oak claims 74 through 221 which he reportedly holds and represents.

The claims basically overlie Bisbee formations which are intruded by rather large linear masses (dikes and sills) of mid-Tertiary Stronghold granite affinity. A few diggings were observed, but no mines or prospects were noted in Stanton B. Keith's compilation (Arizona Bureau of Mines Bulletin 187).

The Dragoon Camp was the townsite for the Dragoon Mine located west of the claim block. The Black Diamond (site) is the smelter site for the mine.

No immediate positive evaluation can be made on the claim block.

(Note: One location corner had a notice which stated that it was known as the "ARAB group". It appears that several re-papering sequences have been operative on the claim block.)

James D. Sell

JDS:1b

WILLARD D. PYE Consulting Geologist

3418 North Forgeus Avenue Tucson, Arizona 85716

TELEPHONE 327-2956 January 15, 1975

Mr. William Hazel 5756 E. Burns Tucson, Arizona 85711 Re: Middlemarch Mining Claims

Dear Mr. Hazel:

In reply to your request for my opinion on the mineralization south of Middlemarch Pass in the vicinity of the old Black Diamond (Dragoon Camp) mine (Sec. 307, T. 18 S., R. 24 E.) Cochise County, Arizona, the writer first became interested in the mineral potential of the area some 12 years ago upon noting its position in relationship to various structural trends together with mineralization in that general region. The writer has worked on various properties in all directions from your property and he was once on your holdings for a few hours, not to make an evaluation, but to determine the extent and character of the mineralization. The opinions that follow are based upon this background.

Your property lies in an area that shows a wide variety of mineralization from which mines currently working, or in the past, have produced copper, silver, lead, zinc and gold.

The basic geology consists of a series of Paleozoic sediments composed mainly of limestones which have been overthrust onto Cretaceous sediments and possibly some pre-thrusting intrusives. This tectonic period was followed by Tertiary and later intrusive and volcanic activity.

Mineralization has been controlled by the thrusts and. other associated faults and fractures and consists of massive sulfides which have been developed along the shear and fracture zones as well as by replacements in the limestone. Minerals observed were massive chalcopyrite and bornite with galena (argentiferous ?) sphalerite, and pyntie together with their secondary and oxidized products. Gold is reported.

There is no reason that there should not be other massive sulfide bodies in the area in addition to those worked by the old-timers, and since the mineralization is related

to some of the Tertiary intrusives which range from andesitic to granitic in character, that there might not be some porphyry type of mineralization in these crystalline rocks. (SOME PORPHYRITIC TYPES FOUND)

I hope that this answers your questions and I shall be pleased to make a more thorough examination of your property if you should so desire.

Yours very truly,

Willand D. Pyc Willard D. Pye

Arizona State Board of

Technical Registration #4033

Les. 793-1841 Res. Bill Hazel 298-3854 Will Dees-Atty-624-2301

