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~~Ref. data (Title, author, Bull, date, pg)~~

~~(1) Location (In area bet. Miami, Superior, & Winkleman).~~
~~Lat. 33°20' N & Long. 110°55' W.~~

(2) Gen. Geol.; Structure; Econ. Geol. (Gen. & for each mine).

(3) Mineralization

(4) Development

(5) Production

(6) Misc.

~~Refs.~~

(7) Maps

(1) Geologic Map of Pinal Ranch Quad, Ariz. (accompanies above ~~[illegible]~~ article but missing from ~~[illegible]~~ U. of A. copy).

(2) Prelim. Geol. " " " " " ; N.P. Peterson; ~~[illegible]~~ Mineral Investigations Field Studies Map MF-81, 1961 (U. of A. library call no. G3701s H1 i961.U51 MF81) — print of this in Essex office).

(1)

J.R. Burke

1/22/71 Geology of the Pinal Ranch Quadrangle, Arizona by N.P. Peterson, USGS Bull. 1141-H, 1963, pp. H1-H18.

Location — Area of 7½-min. quad. located at Lat. 33°20'N & Long. 110°55'W in a region between Miami, Superior, & Winkleman, Ariz. Copper Springs Canyon is situated in NE corner of the quad. Quad. at NW end of Pinal Mtns. in Gila & Pinal Counties & includes Summit mining district.

Access X General Geology —

1704 West Grant Rd.
Tucson, Arizona 85705

December 4, 1970

Mr. E. E. Jones
Regional Exploration Manager
Kerr McGee Corporation
P.O. Box 2070
Tucson, Arizona 85702

Dear Mr. Jones:

Thank you for the information you gave me over the telephone this morning regarding the Copper Springs area.

Enclosed is a copy of Essex's Annual Report for 1969 and a brochure entitled, "This is Essex."

Essex would be interested in discussing joint participation in any development project that would be a sound investment and give Essex entree into short and long term supplies of copper. Please contact us if you have an exploration and/or development proposal in which you think Essex would be a logical partner.

Sincerely,

ESSEX INTERNATIONAL, INC.

Paul I. Eimon
Exploration Manager

PIE:td
enclosures

cc: H. Lanier

See: U.S.G.S. Bull. 1141-H

CONTRIBUTIONS TO GENERAL GEOLOGY

GEOLOGY OF THE PINAL RANCH QUADRANGLE, ARIZONA

By N. P. Peterson

ABSTRACT

The Pinal Ranch quadrangle in Arizona embraces a rugged area at the northwest end of the Pinal Mountains. Deep erosion that occurred during and after uplift of the mountains has removed all the Paleozoic sedimentary rocks and all but a few small patches of the upper Precambrian Apache group, exposing the rocks of early Precambrian age. The latter are a thick sequence of foliated micaceous rocks, known as the Pinal schist, and some intruded masses of quartz diorite.

Other igneous intrusions are the stock of Schultze granite (Tertiary(?)), the Solitude granite (Upper Cretaceous or lower Tertiary), and small sill-like bodies of granite porphyry and diabase. Welded dacitic tuff and alluvial deposits of Tertiary(?) and younger ages crop out in the southwestern parts of the quadrangle. Geol.

The dominant structural trend in the area is northeasterly, roughly parallel with the bedding and foliation of the schist. Only a few relatively young faults strike north to northwest. Geol.

The quadrangle contains many small mineral deposits, of which only the Gibson copper deposit has had noteworthy production. They are mostly vein and lode deposits in schist and are mineralized chiefly with pyrite and chalcopyrite. The sulfides are partly oxidized and leached near the surface, but enrichment in copper was slight. In one area the schist contains disseminated sulfides, but the average copper content is too low to be of economic importance. A few small veins in or near the Schultze granite stock contain tungsten and molybdenum minerals associated with greisen. Econ. Geol.

INTRODUCTION

The Pinal Ranch 7½-minute quadrangle is the southwest quarter of the original Globe 15-minute quadrangle as mapped by the U.S. Geological Survey in 1901. The geology of the Globe 15-minute quadrangle was studied by Ransome (1903, 1904) in 1901 and 1902. The geology of the Pinal Ranch quadrangle was remapped on a scale of 1:12,000 in 1947 and 1957–59 in connection with a comprehensive study of the Globe-Miami mining district.