CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources 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.

PRINTED: 10-10-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HIBBERD MANGANESE

ALTERNATE NAMES:
CADILLAC CLAIMS

PIMA COUNTY MILS NUMBER: 313

LOCATION: TOWNSHIP 13 S RANGE 4 W SECTION 18 QUARTER NE
LATITUDE: N 32DEG 17MIN 52SEC LONGITUDE: W 112DEG 42MIN 43SEC
TOPO MAP NAME: SIKORT CHUAPO MTS - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
MANGANESE

BIBLIOGRAPHY:
FARNHAM, L.L., ET.AL., 1961, USBM IC 7990,
P. 118
AZBM FILE DATA
ADMMR HIBBERD MANGANESE FILE

HIBBERD MANGANESE

PIMA COUNTY
AJO DIST.
T13S, R4W, Sec 18

MILS CADILLAC GROUP
MILS CADILLAC CLAIMS

USBM IC 7990 p. 118

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Hibberd Mn

Date 7-1-58

District Ajo, Pima County

Engineer Lewis A. Smith

Subject: Report on mine by William Hibberd

Claims: 2 unpatented

Owner: Hibberd Manganese Co. (William Hibberd, agent)
Ajo, Arizona

Work: Recently stripped with an R D 8 Caterpillar, exposing a 2 foot vein over a length of 200 feet.

Minerals: Psilomelane and pyrolusite (manganese dioxides)

Tenor: Recent two and a half foot samples showed an average grade of 34-35% Mn, but in two foot widths ran a little over 40%. Since mining will be at least 3 feet wide, the grade will be reduced to about 30% Mn.

Plans: Plans to ship to Mohave M & M Co. or to Winterhaven. Kenneth Holmes (Winterhaven) has been in Ajo twice and plans to return this week and negotiate. He placed a tentative offer of $1.25 per ton in the ground, which is satisfactory to Hibberd.

Geology: This was described in a previous report (Nov. 5, 1957). Previous drilling in a cut had disclosed the vein to a depth of at least 10 feet.

Letter and copy of report mailed July 17, 1958 , also M.O. Report

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Hibberd Manganese | Date November 5, 1957

District Ajo, Pima County | Engineer Lewis A. Smith

Subject: Visit to the Property

Location: Sec.11 T13S R5W
In the Pozo Redondo Mountains, 7 miles southeast of Ajo.

Owner: W. A. Hibberd, Box 455, Ajo. (A.C. Netherland, previous owner)

The mine lies in a crumpled area below the crest of what appears to be an intensely disected anticline. The rocks are all volcanic origin, representing theMiocene series, Pliocene - Pleistocene lake sandstone and Pleistocene basalt. The column is as follows:

Rhyolite Tuff (base)
Glassy Rhyolites
Rhyolite
Sandstone
Basalt

The depressed and crumpled center has been disjointed by slip faults and a major Basin and Range fault. The plan and section of these fractures is as shown on the accompanying diagram, (see separate sheet).

The manganese mineralization is in a brecciated area, in rhyolitic tuff, where two of the slip faults intersect. Some breccia fragments look like andesite. The principal mineral is psilomelane with local spots of pyrolusite. The fractures are as follows.

(A) One striking N 10 W, and dipping 65 oNE.

(B) Transverse fracture which strikes about S. 70° W and is nearly vertical.

A third slip-fault offsets the others at a distance of 300 to the west. The three cause a locus of mineralization.

The breccia zone was penetrated by six 24-foot drill holes, drilled at a flat angle. The average grade of the drillings indicated a variable tenor ranging from 20% to 40% Mn, the average being 24%. The main streak, along fault (a) was about 2' wide with less tenor over a width of 15 feet. Apothoses along the fault (b) extended out for 20-25' in each direction. The property was drilled by McKnight of Sells.

A L. Stovall observed the property a year or so ago, and concluded that the deposit might contain up to 20,000 tons, (but could have 60,000 tons) if properly developed. So far several bulldozers cuts have been made. They are both transverse to the orebody trend and along it.

The state of development is not sufficiently advanced to be able to evaluate the deposit.

Two other lesser showings were found to the southeast, one about 300 feet from the main mine, and the other was about ½ mile along the same general trend.

The ore to be commercial, would have to be beneficiated. Since the manganese mineral is the ~~the~~ space between the country rock fragments and is loosely deposited, it should separate easily under crushing and screening.

The small anticline is a wrinkle on what appears to be a major geo-anticline approximately 75 miles wide, which trends NW * SE at a small angle. The center or sub-crest, area is composed of pre-Cambrian rocks (quartz-mica schists, mica granites, and schistose volcanics). The wings are composed of Tertiary volcanics and interspersed lake sediments. The Pre-Cambrian has been invaded, at Ajo, by intermediate intrusives of probable Laramide age.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

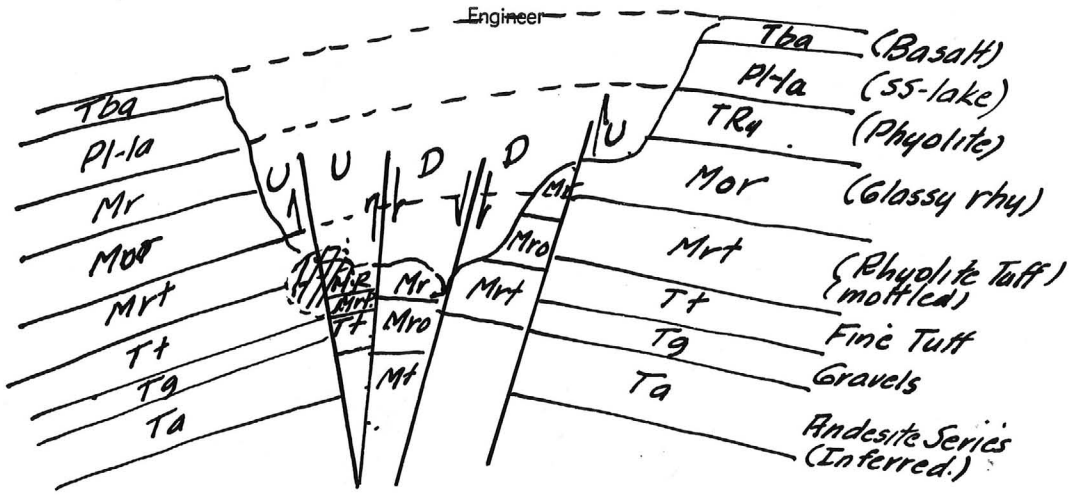
Mine

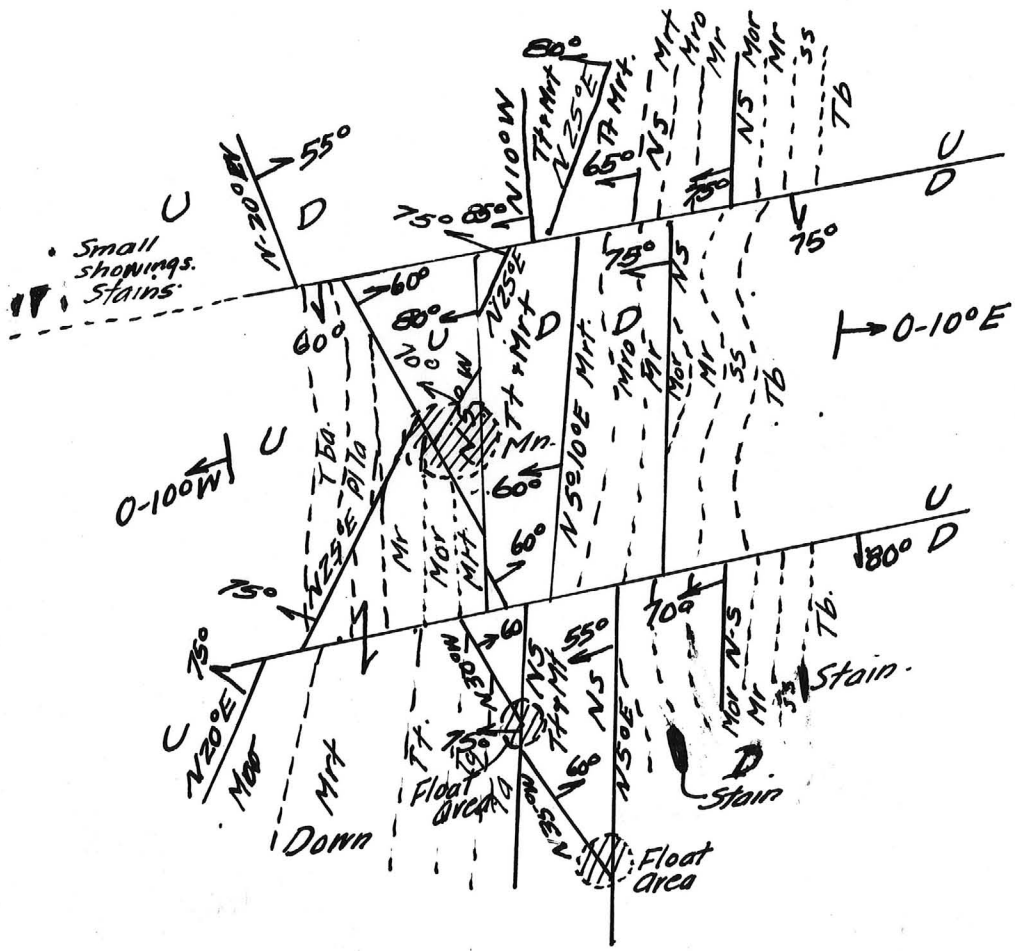
Date

District

Engineer

Subject:





Scale: 2" = 1 mile.