

#### **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: 07-06-2006

## ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HESS MANGANESE

ALTERNATE NAMES:

CHAMBERLAIN PROPERTY ZIG ZAG PAT. CLAIMS MS 4540 MANGANESE QUEEN MANGANESE KING BLACK HILLS

PINAL COUNTY MILS NUMBER: 166

LOCATION: TOWNSHIP 6 S RANGE 11 E SECTION 18 QUARTER W2 LATITUDE: N 32DEG 54MIN 40SEC LONGITUDE: W 111DEG 15MIN 15SEC TOPO MAP NAME: CACTUS FOREST - 7.5 MIN

**CURRENT STATUS: PAST PRODUCER** 

COMMODITY:

MANGANESE COPPER

BIBLIOGRAPHY:

BLM MINING DISTRICT SHEET 601 ADMMR HESS MANGANESE MINE FILE FARNHAM, L.L. & OTHERS MANGANESE DEPOSITS OF EASTERN AZ. USBM IC 7990, 1961, P. 150-151 ADMMR U FILE PINAL MN 13 May 26, 1942 MAY 28 1942

## MEMORANDUM

CONFIDENTIAL

To:-

Director, Dept. Mineral Resources

From: -

George A. Ballam

H. Weir Hess has several men employed in Tucson Wash, about one mile from Collins shaft of the Mammoth Mine, bringing down manganese ore by burro pack to a loading dock in the Wash.

Mr. Hess is doing some testing on manganese fines, probably with a view toward briquetting, and probable purchase of fines from other producers for this processing. The Patagonia mill which is preparing to handle a pyrolusite ore with consequent excessive fines, was mentioned specifically as one possible source.

Since you are acquainted with Mr. Hess, you will appreciate the fact that this information was not volunteered and is strictly confidential.

Horge a Dellam

HESS MANGANESE

Mn

Pinal 10 -

45 10E

H. Weir Hess, Oracle

142

ZIG ZAG MINE & MILL

PINAL CO.

Visited above mine - 12 mi. S of Florence, manganese property.

Found it closed down, with most equipment remaining on the property.

Pete Peters at the Cafe 8 mi. S of Florence, gave info. reg. operations of this mine. Says mine has not operated for over 2 months and that operators had to close down because the vein got too narrow to mine profitably. He also stated that the mine is closed permanently, and that operators are planning to remove their equipment from the mine premises.

10-14-58 Weekly Report

AXEL L. JOHNSON

# DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Zig Zag Mine & Mill

Date Jan. 15, 1958

District Cottonwood District, Pinal Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from E. J. Sturdivant & Personal Visit.

Location Kbout 12 miles SE of Florence. Drive 10 miles south from Florence on Highway # 80. Turn left (east) and drive about 2 miles to the mine.

Number of Exkimxx Claims 5 unpat. claims.

Owner Robert Edwards, Coolidge, Ariz.

Lessees Sturdivant and Fisher, Florence, Ariz. (both residuing in Florence)
10 year lease, with option for renewal of an additional 10 years.

Principal Minerals Manganese ore.

Present Mining Activity Mining manganese ore by open pit method and upgrading same in their mill. 4 men working, using a double drum scraper, mounted on a truck.

Geology & Mineralization Narrow fissures and stringers of manganese in igneous rock, resembling diorite. Stringers are mostly only an inch or two in width, except in a few places, where they widen out into small pockets.

Ore Values Ore, when separated from the surrounding rock, will average from 30 to 38 % in manganese. Some of the rock is mixed in directly with the manganese ore, and can not be separated by handpicking or coarse grinding.

Ore in Sight & Probable Ore that can be mined by open pit operations appears to be a rather small amount.

Milling & Marketing Facilities Mill, that has been constructed on the property, consists of the following equipment:

Jaw crusher, Bucket elevator, Trommel Screens, 25 ton Fine ore bin, and 2 Jigs. Water for the operation is hauled 12 miles from Florence.

Mill is operated intermittently as required by the ore production from the open pit operation.

Mill product, the concentrates from the jigs, averages from 36 to 39 %, according to Mr. Sturdivant.

The company expects to sell this product to the Mohave Mining & Milling Co., Wickenburg, Ariz.

Remarks Mr. Sturdivant would not make any statement as to the amount of ore produced to date, or regarding the amount of ore mined per day or week. It appears, however, that it has been a very small amount up to the present time.

## ADDITIONAL REFERENCES

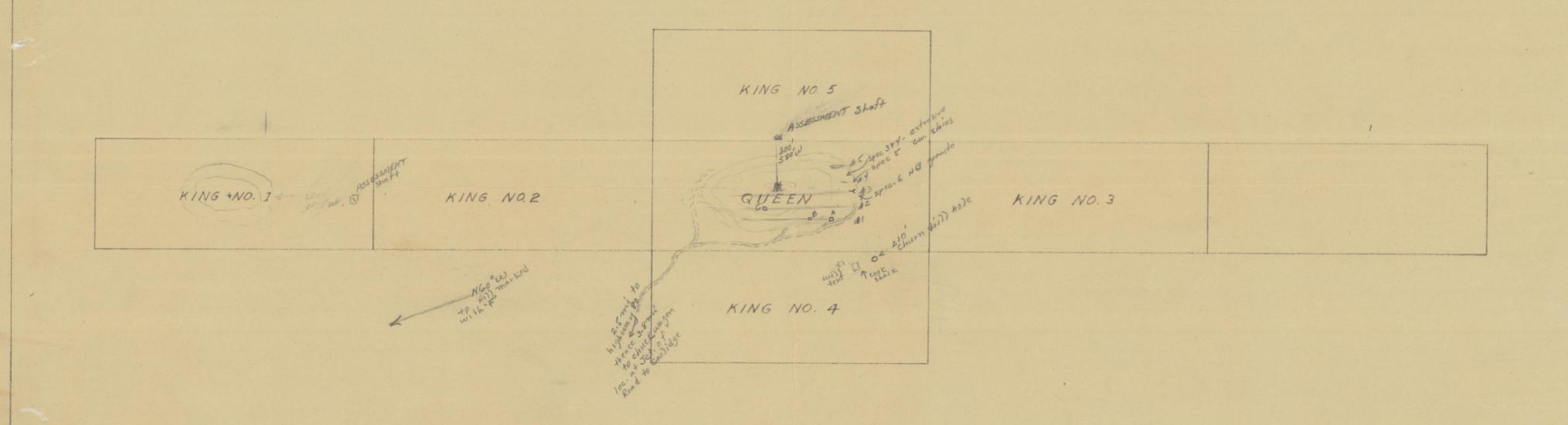
See: IC 7990, p. 150 See: ABM Bull. 127, p.89 (Chamberlain Mine)

ABM Bull. 180,p. 218

# ADDITIONAL REFERENCES

See: IC 7990, p. 150 - Zig Zag Group

These Claims Are Located About 12 Miles Southeasterly From Florence And 2 Miles North Of U.S. Highway 80 and 89 - And Lie On The Southerly Slope
Of El Sierra Gato



MANGANESE KING AND QUEEN GROUP PINAL COUNTY-STATE OF ARIZONA OWL HEAD MINING DISTRICT

UNDER BOND AND LEASE TO429/42 H. WEIR HESS.