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06/10/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: GIBSON MANGANESE MINE

ALTERNATE NAMES:

YUMA COUNTY MILS NUMBER: 25

LOCATION: TOWNSHIP 5 S RANGE 17 W SECTION 2 QUARTER N2
LATITUDE: N 33DEG 01MIN 42SEC LONGITUDE: W 113DEG 58MIN 58SEC
TOPO MAP NAME: ENGESSER PASS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
MANGANESE

BIBLIOGRAPHY:
KEITH, S.B., 1978, AZBM BULL. 192, P. 121
ADMMR GIBSON MANGANESE MINE FILE

Gibson Manganese Mine 5~~S~~ 17W N Cen 2 Protracted

See: Index of Mining Properties in Yuma Co., Az. by Stanton B. Keith, Geologist
Bulletin 192 - 1978 State of Az., Bureau of Geology and Mineral Tech.
Univ. of Az., Tucson



STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA 85007

Telephone call from Floyd Everett to John H. Jett, November 10, 1975

Mr. Floyd Everett called for information concerning Wareco Company. The company is reportedly mining 600 yards per day to be increased to 6000 yards per day. This operation is in the Yuma area.

A Mr. Sturges, rancher and small miner in Yuma, said the above is operated by a Mr. Resh. Mr. Resh has located on top of some of Mr. Sturges' claims near Dome (Placer area). Mr. Resh told Mr. Sturges his claims ran 10 ounces of Au. Mr. Sturges disagreed.

Mr. Sturges reportedly stated that Mr. Resh said he was a professional promoter.

Stephen H. Sturges
Box 409
825 Orange Avenue
Yuma, Arizona

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine \ Gibson Manganese
District Castle Dome Dist., Yuma
Subject: Interview with J. A. Gibson

Date May 4, 1960
Engineer Lewis A. Smith

Location: East tip of the Castle Dome Mountains, 1/2 mile east of Chain Tanks.

Claims: 5 unpatented

Owners: \ J. A. Gibson, Box 7, Tacna, Arizona
 \ Steve Sturges, partner

Work: Shaft 20' deep and some cuts.

Minerals: Manganese (pyrolusite)

Shipments: Several truck loads of hand sorted pyrolusite ore were shipped to Wenden.
This ore ran 30% manganese.

Geology: The pyrolusite occurs in a shear zone, trending N-S and dipping nearly vertically. It cuts andesite flows. Some mineralization of 5-6% manganese content, extends out for a short distance from the shear into the shattered andesite. This low grade was tested and found to be amenable to concentration by gravity up to more than 40% manganese. However, none of this was mined.

To: Mr. Jack Stewart & Associates,
800 No. Central Ave., Phoenix, Ariz.

Manganese Mines Near Cibola.

Following your request I have made a new examination of the manganese properties you hold near Cibola, Arizona. A previous examination and report was made in July, 1955. Reference is made to that report for some details, such as the geological treatise, and same will not be repeated here. This report will be mostly confined to the changes that have taken place in the past two years.

You have several separate properties, or manganese deposits, and they are all within a ten mile radius of your centrally located mill. A brief description of each will follow:
GIBSON. The Gibson deposit was not owned at the time of my previous examination, although it was visited then. I understand that it has since been purchased. It consists of two large orebodies with a narrower neck connecting them. The northern part was formerly called the Allen. A sharp canyon, over 100 feet deep separates the two parts. An open pit has been started on the northern segment and promises well.

Standing at the north orebody of the Gibson looking at the south orebody. All of the big hill on right ahead is ore. Note shovel cut, and shovel attacking hill from bottom of canyon. Intermediate benches will be run.

Bore holes put down in the north orebody, together with the croppings in the canyon below, give reasonable assurance that the ore continues for over 100 feet in depth. The south orebody is being mined now with a $2\frac{1}{2}$ yard power shovel, starting in the canyon over 100 feet below the ore apex, as shown in the picture.

Altogether these two orebodies comprise an area at least 500 by 300 feet, which at 100 foot depth, would furnish over 1,000,000 tons. A test run was made on ore produced by the shovel, and some 650 tons produced over 100 tons of concentrates. This ratio of $6\frac{1}{2}$ to 1 is probably a little better than would be maintained in mining the entire orebody, but an expected ratio of 9 to 1 would seem conservative.

May it be explained here that it has become the custom to speak of the grade and character of the crude ore in terms of its concentration ratio. No matter what the grade of the ore may be, the grade of the concentrates is quite uniform at about 42% Mn. Better or poorer ore simply makes more or less concentrates. Such concentrates are worth \$90.00 per ton. Therefore if an ore yields concentrates at a ratio of 9 to 1, the gross value of the crude ore is \$10.00 per ton.

M&A DEPOSIT. This deposit is on the strike of the Gibson

Looking toward the Gibson from the M & A DEPOSIT.