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PRINTED: 08-08-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: APACHE

ALTERNATE NAMES:

GALLAGHER & FLYNN GROUPS
DULCY

MARICOPA COUNTY MILS NUMBER: 168

LOCATION: TOWNSHIP 5 N RANGE 9 W SECTION 29 QUARTER SE
LATITUDE: N 33DEG 44MIN 33SEC LONGITUDE: W 113DEG 12MIN 43SEC
TOPO MAP NAME: BIG HORN MTS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

MANGANESE NODULES
MANGANESE OXIDE

BIBLIOGRAPHY:

USGS BIG HORN MTS QUAD
SEE ADMMR WHITING MILL FILE
FARNHAM & STEWART USBM IC 7843 P 23
ADMMR "U" FILE
MILS 1-08-1979 PRINTOUT
JONES E & RANSOME F USGS 710-D P 141
JIG CONC MILL OPER -LOWER GRADE ORE SHIPPED
TO WHITING MILL
ADMMR APACHE FILE

REFERENCES

APACHE MINE

WHITING Mill file
USBM IC 7843, Manganese Deposits of Western Az. P. 23
"U" File
USGS Bull 710-D p. 141
MILS Sheet sequence number 0040130124
Maricopa County MILS Index #168
Big Horn Mts. 15' Topo (included in file)

MARICOPA COUNTY
BIG HORN DIST.
T5N R9W Sec. 29

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

113°15' 45" W AGUILA (U.S. 60 & 70) 15 MI. 294000m E.



Apache and Sulcy Claims
Big Horn Mts. 15' sec. 29, T. 5 N., R. 9 W.
Maricopa County

reference: Arizona Dept. of Mineral Resources
Apache Mine Maricopa County (file)

and Manganese Deposits of Western Arizona
by L.L. Farnham and L.A. Stewart
Bureau of Mines Information Circular 7843
U.S. Dept. of the Interior 1958 p. 23

present owner: ?

history of the mine:

the property was originally located during WWI and were then known as the Gallagher and Flynn Group. In 1918 production totaled about 70 tons of sorted ore containing 40% Mn.

The claims were relocated by J.N. House in 1951. During 1953, lessees shipped about 250 tons of ore, containing 18% Mn to the Wenden stockpile. In April 1954 the claims were leased to Frank McElrath of Long Beach, Cal. who planned to operate the property. In 1958-9 Hans Christofferson and son of Aguila were operating the property. They shipped about 25-30 tons per week.

no info after 1959

minerals:

~~ore~~: pyrolusite, psilomelane (manganese)

Apache and Duley Claims (cont.)

Geology: the ore lies in a breccia which trends N 25-30°W and dips steeply SW. It is composed of psilomelane and some pyrolusite. Veins contain some magnetite. Breccia consists of andesite, precambrian schist, and granite.

Assays (1958)

coarse material

40-47% Mn

finer

12-14% Mn

APACHE MINE

MARICOPA COUNTY

IC 7843

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Apache ✓ apt. 529, 5N, R9W (assured)
District Big Horn Dist. ^{Maricopa} ~~Yuma~~ Co. Engineer Lewis A. Smith
Subject: Mine Visit (Supplementary Report)

Han Christofferson has nearly completed a jig concentration mill to beneficiate his lower grade ore. This plant consists of a grizzly over a "Blake" type jaw crusher which reduces the material to minus 3/4 inch. The minus 3/4 inch material is screened to remove the fines (minus 1/4 inch). The middling product is sent to a set of rolls where it is reduced to 1/4 inch. The fines (about 8 mesh) are again screened out. The 1/4 inch to 8 mesh product is then jigged. The concentrate is stored for shipment along with the fines for sintering. Lew Smith wants to buy these to mix with his high silica concentrate before sintering at Ripsey, provided a suitable price can be arranged. The better coarse ore (plus 40% Mn) is being shipped to Stovall at Casa Grande for blending. The fines, 8 mesh to 1/4 inch, run about 36-38% Mn, while the jig concentrate is expected to average over 40%. Since considerable calcite (manganiferous) is present in the products, sintering should upgrade them several percent to well over 40% (probably 45%).

A new footwall vein has been discovered north of the main vein. The main vein is in a fracture in granite, while the footwall vein is on the contact between a down-dropped andesite block and the granite. This contact intercepts the main vein west of the present workings. The ore zone (in the footwall vein) runs around 38% Mn, but will have to be beneficiated to remove breccia fragments of andesite and granite. The "main" vein is composed of stringers in the granite over a width of 5-10 feet. These stringers converge in places to form manganese veins up to 2' thick. The entire width is mineable. Samples vary according to the width of the manganese stringers and their prevalence across the face. The grade thus varies from 20% up to 45%.

Reference IC 7843

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

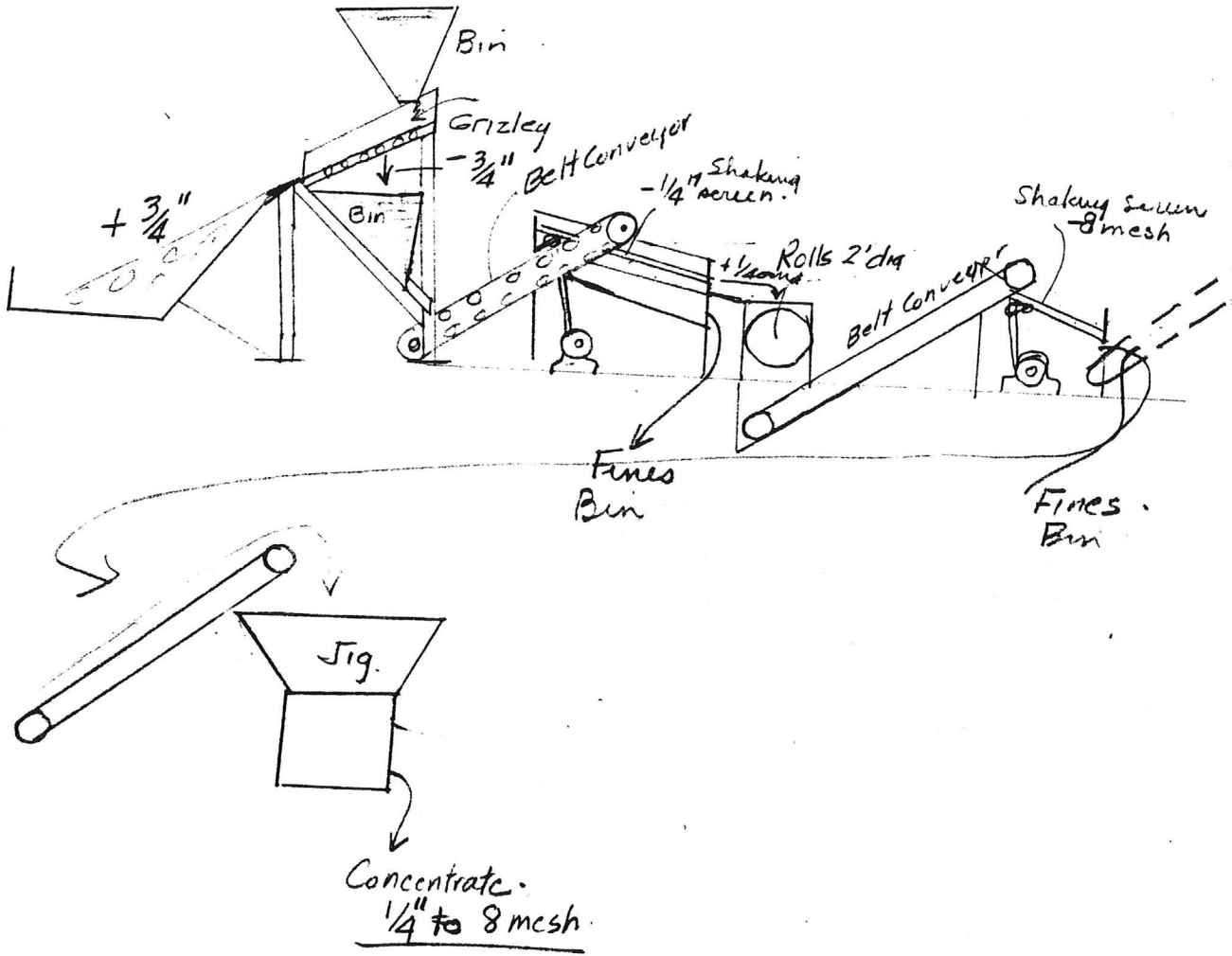
Mine Apache Mine.

Date

District Big Horn District, Yuma Co

Engineer

Subject:



SKETCH OF MILL

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Apache Mine ✓

Date January 10, 1958

District Big Horn Dist. Maricopa Co.

Engineer Lewis A. Smith

Subject: Visit to the Property

Location: 2 miles East of Whiting Mill.

Operator: ✓ Hans Christofferson & Son, Aguila Arizona

Claims: 2

Minerals: ✓ Manganese

Development: Shafts (10 & 25' respectively) both along vein, and a long (100') stope between.

Capacity: About 25-30 tons per week and this ore is shipped to the Whiting Mill. Some stocked coarse ore will be shipped to Dallas. The run of mine is hand picked to remove this coarse material which runs 40 up to 47% Mn. The fines are low grade, running about 12-14% Mn.

Geology: The ore lies in a breccia (Fault) which trends about N 25-30°W and dips steeply to the SW. It is composed of psilomelane with lesser amounts of pyrolusite. Vugs contain small crystals of manganite. Breccia consists andesite, and pre-Cambrian Schist and granite. Silica runs about 8.6% and Iron runs about 1.5-4%.

The mine is being readied for an increase in production up to 40-50 tons weekly.