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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MAGNET MINE

ALTERNATE NAMES:

SUPERIOR AND GLOBE GROUPS
KENO
COPPER TRUST
PATENT MS 2777

GILA COUNTY MILS NUMBER: 170A

LOCATION: TOWNSHIP 1 N RANGE 15.5E SECTION 10 QUARTER C
LATITUDE: N 33DEG 26MIN 42SEC LONGITUDE: W 110DEG 45MIN 50SEC
TOPO MAP NAME: GLOBE - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

MANGANESE DIOXIDE

BIBLIOGRAPHY:

FARNHAM L L ETAL MANG DEPTS EASTERN AZ USBM
IC 7990 1961 P 64-66, MINING WORLD AUG 1958
BLM MINING DISTRICT SHEET 171
RANSOME F L & E E BURCHARD CONTRIBUTIONS TO
ECONOMIC GEOL USGS BULL 710 1919 P 168
WILSON E D & G BUTLER MANG ORE DEPTS AZ AZBM
BULL 127 1930 P 61
ADMMR MAGNET MINE FILE

05/05/86

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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Magnet (New Dominion)

Date 9-19-58

District Globe, Gila County

Engineer Lewis A. Smith

Subject: Mine Visit (Supplementary)

Operator: V. C. McCutchan, P.O. Box 1632, Miami, Arizona

Mining: The new shaft, begun last summer, is completed to 165' on a 70° incline, in the Magnet vein. A drift on the 140' level, 70' to the Sw, underlies the present stope. Hoisting is done by means of a electric motor driven 2' drum hoist with a 5/8" cable. Stopping is open and requires only a few stulls for support. Air is furnished by Worthington J. G. Compressor, and electric power is generated by a caterpillar motor (old RD8) and generator, direct driven. This power is also used to run an inclined shaking screen. The ore, averaging 19% Mn, is screened to 1/2 inch and is shipped to the Mohave Mining and Milling Co.'s mill at Wickenburg.

Present shipments: 200 tons of 30% Mn ore per month. This material contains 10% iron. It is being sent to the Mohave Mining and Milling Company's mill at Wickenburg.

MINING WORLD - 5-60

Mn
✓

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

✓ Mine Magnet Mine (New Dominion) ✓

Date May 23, 1958

District Globe (Sec. 10 and 11, T₁N, R₁₅¹/₂E) *John S.* Engineer Lewis A. Smith

Subject: Mine Visitation

Answer ? ✓
Operators: Mohave Mining and Milling Co. has two claims (the Magnet and the Keno Fraction). The lease operates as an option to buy. At various times the property was held by McBernie, Lou Wynon, T.J. Long, and Taylor, but was leased to Ralph Henderson before Mohave took over.

Development Work: The Magnet is developed by a 150 foot shaft with the main level at 100'. Drifts were run 125' each way on the vein and some stoping is in progress above both drifts. The rate of production ranges from 75 to 150 tons per day, which is hoisted by means of a Chrysler Industrial single drum hoist using a 5/8" cable. The ore is dumped into a stock pile and later loaded by a 3/4 yard TD9 tracks-cavator or loader into 22 yard semi-trailor trucks. The haul to Wickenburg amounts to 145 miles and is contracted to Wells Cargo Co. at about 5 1/4 cents per ton-mile. The air is furnished by an Ingersoll Randy 600 compressor and lights are furnished by a Hercules Electrical Power plant. The mine is lighted. 9 men are employed underground and 4 at the surface.

Reserved: Calculated and blocked out reserves amount to more than 10,000 tons, but Peterson, the mine engineer in charge, states that there is every evidence of more tonnage below the 100' level for at least 50'.

Geology: There are several complexly faulted veins of which the "Magnet" vein is the most ^{important} ~~common~~. The vein strikes from N 40' to 45' E and dips 55° SE but on the east end in the Keno Fraction it swings toward the east, ending up with a more easterly strike, reaching toward a NW-SE curving fault cut-off. This fault strikes S 20-25° E on the north but curves more to the east as it is traced to the southeast. The two appear to be converging but the surface did not show them past the Mesquite Limestone-diabase contact on the SE. The veins are partly filled fissures and partly replacements. They vary from 14'-20' near the Magnet shaft pitching appreciably toward the southwest. Between the Magnet mine and the McCutchen lease to the southwest the vein is narrow, widening again in the McCutchen lease. A vein now leased by Wolfe and Olsen parallel the major fault for a ways.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

✓ Mine S-E Magnet-Yuma Claims

Date 5-23-58

District Globe (Sec. 10¹¹ T1N, R15¹²E)

Engineer Lewis A Smith

Subject: Mine Visit

Owners: same history as the New Dominion

Operator: ✓ Red McCutchin, Lessee

Mine: Work consists of two shafts along the Magnet vein at a distance of 200 feet apart. The northeast shaft is 98' deep and the southwest shaft (on other side of canyon) is 110' deep. They are interconnected on the 98' level. An adit at the collar of the northeast shaft extends over 100' to the northeast from the portal on the vein. The mine is equipped with a single drum and a gasoline engine for power. The cable is 1/2 inch and hauls a 1/2 ton skip. The ore runs 35% Mn and carries 10% iron and 9% SiO₂.

Geology: The deposit is in the Mescal and Pioneer formations as a vein which dips 55-60° to the NW and strikes variably to the northeast. It appears to be a rotated segment of the Magnet vein of Mohave's lease. The southwest shaft is partly in diabase. The vein continues over into the Yuma claims to the southwest. Reserves are not known, but a few thousand tons appear to be probable.

#171
142 TLN R15.5E
Globe Dist

[illegible]

(MAGNET MINE) ✓
MOHAVE MINING & MILLING CO.

✓
See: MINING WORLD, Aug. 1958 p, 66