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PRINTED: 01/27/2004

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HARDY

ALTERNATE NAMES:

KEYNOTE MILLER

MOHAVE COUNTY MILS NUMBER: 16A

LOCATION: TOWNSHIP 19 N RANGE 20 W SECTION 5 QUARTER NE LATITUDE: N 35DEG 03MIN 55SEC LONGITUDE: W 114DEG 25MIN 31SEC

TOPO MAP NAME: OATMAN - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

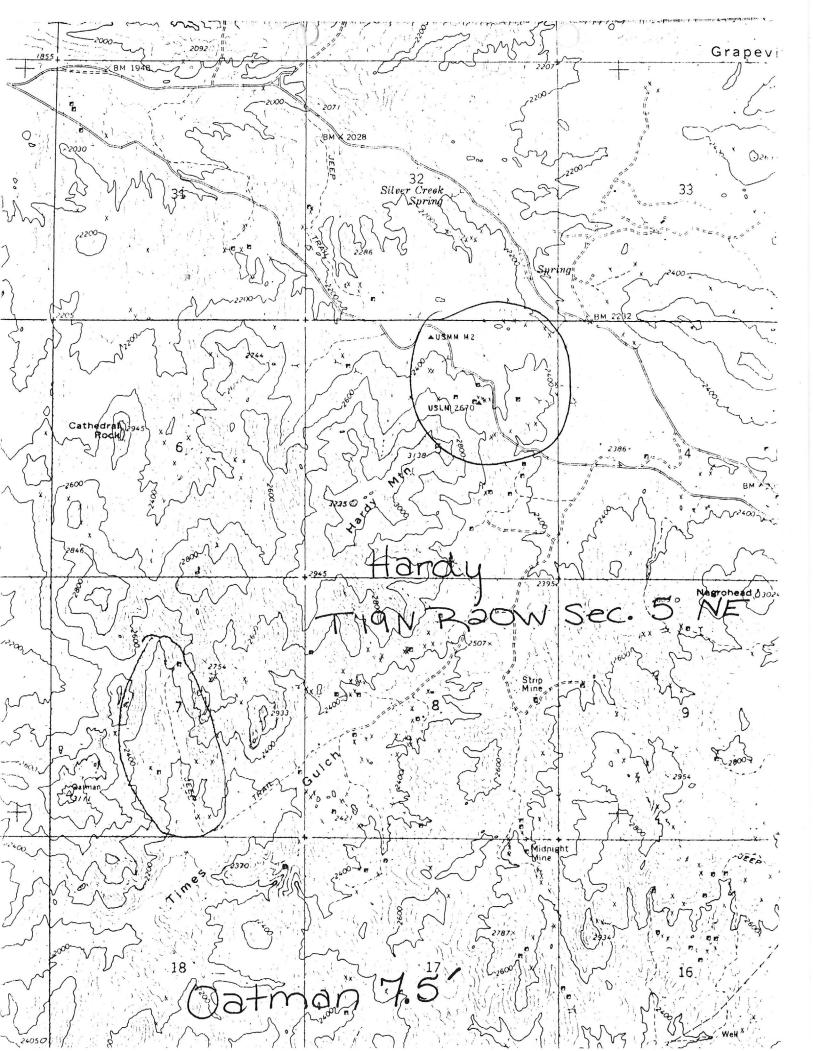
COMMODITY:

GOLD LODE SILVER

FLUORINE FLUORSPAR

BIBLIOGRAPHY:

ADMMR HARDY MINE FILE ADMMR MOHAVE CUSTOM MILL PROJECT WILSON, E.D. "AZ LODE GOLD MINES" AZBM BULL 137, P. 98; 1967 ELSING, M.J. "AZ METAL PRODUCTION" AZBM BULL 140, P. 96; 1936 RANSOME, F.L. "GEOL, OF OATMAN GOLD DIST, AZ" USGS BULL 743, P. 4, 8 (MAP) SCHRADER, F.C. "MIN. DPSTS OF CRBT RNGE, BLCK MTN, GRND WSH CLF, AZ" USGS BUL 397, P 176-8 SCHRADER, F.C. "MIN. DPSTS OF CRBT RNGE, BLCK MTNS, GRND WSH CLFS, AZ" USGS BULL 340, P 78 GARDNER, E.D. "GOLD MNG & MLLNG IN BLCK MTNS, WEST MOH. CTY, AZ" USBM IC 6901, P. 8, 40 ADMMR INDUSTRIAL MINERALS RPT, NO. 2, P. 41 ADDITIONAL WORKINGS SEC. 4-T19N-R20W ADMMR AZ. FLUORSPAR RPT, NO. 3, P. 30; 1971 ADMMR MAPS (UPSTAIRS IN AZBM FILE BOXES - 1 CLAIM MAP W/ UNDERGROUND WORKINGS)



DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Har

Hardy Mine

Date

December 19, 1957

District San Francisco, Mohave Co.

Engineer Lewis A. Smith

Subject: Visit to Property

Location:

Sec. 5, North Part, T 19 R, R 20 E, 32 miles NW of Oatman

Operators:

W. H. Hittson and James McCarty, Oatman, Arizona

work:

Shaft to 300 feet and 1200 feet of drifts, several lesser shafts and

winzes were driven as well as several hundred feet of tunnels.

Geology:

The deposit consists of a vein which strikes N 75°W to nearly EW, and dips about 75 degrees to the north. Cross fractures, closely spaced in places, have caused locally rich, but relatively small off-shoots of ore in the footwall. The vein varies in width from 2 - 30 feet and can be traced for more than a mile. However, the main concentration of ore material seems to have occurred where a nearly NaS shear zone is intercepted by the vein fracture. On the footwall a 35 foot zone of mineralization extends into the wall rock. This area contains prominent fluorite, calcite, adularia and intimate silicified blebs or veinlets of stage 3 quartz. The average grade of this is about \$3.50 according to Mr. McCarty. The vein fracture has a wide gouge zone (3-5') in the center of which is a quartz vein of variable thickness (2" to 12"), which may probably be classed as stage 5 quartz, and which contains a very good grade of ore (10 oz or better). The wall rock is Times microgranitic granite-porphyry which in places to the south grades into a hornblende monzonite porphyry. A wide north-south trending trench about 500' south of the main vein cut across the shear zone, yielded a general average assay of \$3.25 in gold. This closely admixed with iron oxides, and the rock is stained yellow to brown. This sheared zone varies from 75 to 100 feet in width and the individual shears are closely spaced. The ore varies within the main vein, from a few cents up to 1.5 oz. of gold and 1-2 oz. of silver.

Along the main vein the ore shoots are localized by the intersecting transverse shears which appear to be pre-mineral in age.