



## **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](mailto: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: 11-14-2006

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HOOT OWL CLAIM

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 1053

LOCATION: TOWNSHIP 13 N RANGE 1 W SECTION 19 QUARTER NE  
LATITUDE: N 34DEG 29MIN 50SEC LONGITUDE: W 112DEG 24MIN 00SEC  
TOPO MAP NAME: GROOM CREEK - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:  
SILVER  
GOLD  
LEAD

BIBLIOGRAPHY:  
ADMMR HOOT OWL CLAIM FILE

GROOM CREEK QUADRANGLE

ARIZONA—YAVAPAI CO.

7.5 MINUTE SERIES (TOPOGRAPHIC)

NW/4 MT. UNION 15' QUADRANGLE

3553 III SE  
(PRESCOTT  
VALLEY SOUTH)

25'

R 2 W

R 1 W

371

372

360 000 FEET

112° 22' 30"

34° 30'



1 270 000  
FEET

3818

3817

3816

3815

3814

3814

T 13 N

27' 30"

T 12 1/2 N

3813

**Hoot Owl Claim**  
**Groom Creek - 7.5 Min**

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

FILED  
DEC 28 1964

Mine 'Hoot Owl Claim

Date November 25, 1964

District Walker Dist., Yavapai Co.

Engineer Lewis A. Smith

Subject: Conference with J. H. Waterhouse

Location: NE $\frac{1}{4}$ , S. 19, T. 13, N., R. 1 W., (1 $\frac{1}{2}$  miles by road from the Walker Road to the W from the New Strike Group).

PROPERTY: One unpatented lode claim.

OWNER: Thomas LeNoir, 1724 W. Vogel, Phoenix, Arizona.

GEOLOGIST: J. H. Waterhouse (phone 944-1706).

WORK: Two shallow shafts, 200 feet apart, both about 15 feet deep. One short adit, near the north shaft (12 ft. long), one open cut and short shaft on a vein that parallels the vein on which the other workings are located. Considerable sampling was done in these workings.

(a) At the North Shaft, main vein 1.5 feet wide, these ran about 18.6 oz. Ag, and 0.02 oz. Au, and 5-10 percent Pb, on an average.

(b) At the south shaft, main vein 1 foot wide, ran 14.7 oz. Ag, 0.050 oz Au, and 1.8 percent Pb.

(c) In the open cut the exposed portion of the <sup>Composite</sup> vein is 3.5 feet wide. Three quartz-calcite veins lie within this width. The principal one is 3/4 ft. wide at the top and 1.2 feet wide at the lowest exposure. (This ran 18.6 oz Ag, 0.02 Au and 10.0 percent Zn.) The second vein is in the middle and is 0.20 feet wide. (This ran 0.65 oz. Ag, 0.20 percent copper, 5.2 percent Zn, and 1.82 percent Zn.) The third vein is 0.25 ft. wide and assayed 0.25 oz. Ag and 5 percent lead. A third vein W of the main vein has a greenish gray quartz filling that assayed 0.35 oz. gold.

GEOLOGY: The principal rock is schist cut by a north trending diorite dike. Three veins generally trending N 20 deg. E, N 27 deg. E and N 25 deg. E (W to E). The westmost vein (Argenau Vein) is not much developed. The "Main" vein (next to E) trends N 27 deg. E for several hundred feet then changes abruptly to N 20 Deg. E. Near the point of change it appears to be offset. The dip is generally about 74 deg W. The fault trends about N 70 Deg. W. The third or "East" vein has not been traced to the fault. Its dip is roughly 70 deg. W. The rock between the 3 veinlets that so far have been uncovered in the East are separated by a fine grained gray rock which is severely altered, and soft, but has not yet been determined. The area between the "Main" and "East" veins has been intensely altered but has not yet been prospected. In the 3.5 foot section of the "East" vein the three veinlets are composed of quartz, calcite, limonite, fine grained galena and sphalerite with sporadic alteration of the galena to plumbojarosite and anglesite. Pyrite is present, but minor, but arsenopyrite is more prevalent. The limonite is derived from the pyrite and arsenopyrite and locally shows indications of copper. The galena, is coated by thin films of "sooty" argentite that probably accounts for the silver values. Some vugs are lined by calcite and quartz crystals. The calcite locally fluoresces to a crimson red color but much of it does not fluoresce. Most of it is crystalline. The absence of cerussite or copper oxides is surprising in view of the large amount of calcite present. In this district the primary silver minerals are usually argentiferous tetrahedrite (Friedbergite) or sulph-antimonides or sulph-arsenides of silver. (Since arsenopyrite is the main iron sulphide, it is possible that pyrargyrite was the silver primary mineral)