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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MILLER AGATE

ALTERNATE NAMES:
SAWTOOTH

PINAL COUNTY MILS NUMBER: 652

LOCATION: TOWNSHIP 9 S RANGE 6 E SECTION 3 QUARTER SW
LATITUDE: N 32DEG 35MIN 43SEC LONGITUDE: W 111DEG 44MIN 35SEC
TOPO MAP NAME: ELOY - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
GEMSTONE AGATE

BIBLIOGRAPHY:
ADMMR MILLER AGATE FILE
ADMMR MAPS-ADOT HIGHWAY MAP PINAL CO. 1949
ADMMR FILES

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File

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Miller Agate

Date September 13, 1960

District Sawtooth Mountains, Pinal County

Engineer Lewis A. Smith

950E sect. 33

Subject: Interview with Don Miller.

Don Miller has done his assessment work on his agate claims. He stated that the work disclosed that the agate is the cement for a severely shattered rhyolite flow and forms a blowout where two faults intersect. The agate ranges from knife-edge to 3 inches in thickness. Most of the recoverable agate is more or less triangular in cross-section and strongly adhered to the rhyolite fragments. The three most prevalent colors are cream, red and purple, and all three may be inter-ringed. Some mass agate with red or black dendrites is found in local clusters.

Miller has slabbed several hundred pieces and is offering the slabs at \$2.50 to \$4.00 per pound, depending upon the size and quality of the slabs.

He was given our list of mineral dealers.

After the weather cools, he plans to mine more raw material.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Miller Agate

Date March 10, 1959

District Saw Tooth Mtns., (Casa Grande) Pinal Co.

Engineer Lewis A. Smith

Subject: as reported by Don Miller

Claims: 1 unpatented

Owners: Don R. Miller, 210 South Washington St., Casa Grande

Work: 2 open cuts

GEOLOGY: Brecciated volcanics with the fragments cemented by amethyst agate. The rock inclusions, in many cases, have been weathered out leaving a box work of agate. The resultant cavities have been lined by later quartz crystals. The agate bands range in width from 1/2 inch up to 2 inches and the boxes range from 1 inch up to 3 inches in diameter. Many of the boxes are triangular in shape, while others are polygons with variable shapes. Miller has cut and polished the material and it appears to be of very good quality, being quite dense and free from openings. He has recently sold some of the material at \$2.00 per pound in the rough. Other types of agate also occur nearby. These have a considerable range of color but are less consolidated than the amethyst.

The amethyst breccia zones range from a few inches up to several feet in width. One of the zones has a good hanging wall which shows slickensides, indicating that the breccia zones are affiliated with, or cause by faulting. The extent of the zones is, as yet, unknown since work has largely been limited to a small area.