

MAC – Castle Dome district

Photos by Jan Rasmussen Copyright Jan. 9, 2017
Taken in 2010 at Arizona Mining & Mineral Museum
Or Taken in 2012 at TGMS Arizona Mineral Treasures



Arizona Mineral Treasures

Wulfenite

Hull Mine, Castle Dome District

Yuma County

Owner: Dick Morris



Arizona Mineral Treasures

**Wulfenite and Cerussite
on fluorite**

Castle Dome District
Yuma County

Owner: Les & Paula Presmyk



Arizona Mineral Treasures

Wulfenite

Hull Mine, Castle Dome District

Yuma County

Owner: Dick Morris



Arizona Mineral Treasures

Wulfenite

Hull Mine, Castle Dome District

Yuma County

Owner: Jack Crowley

Yavapai County
Owner: Bill Yedowitz



Arizona Mineral Treasures

Wulfenite

Hull Mine, Castle Dome District

Yuma County

Owner: Jack Crowley



Mimetite
Castle Dome dist.
Owner: Stan Keith



MIMETITE

Rialto Mine
Castle Dome, Arizona

Numerous minute yellow-green
crystals with pale yellow to
light orange wulfenite



Malffewite

Rialto Mine

Castle Dome district

Yuma Co., Arizona

MAC – Defiance mine Gleeson (formerly Turquoise) district

Photos by Jan Rasmussen Copyright Jan. 9, 2017
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Arizona Mineral Specimens

Arizona Mineral Specimens
Defiance Mine
Copper, Silver, Lead, Zinc, Iron, Manganese, Barium, Strontium, Potassium, Sodium, Calcium, Magnesium, Silicon, Aluminum, Oxygen, Hydrogen, Carbon, Nitrogen, Sulfur, Phosphorus, Chlorine, Fluorine, Bromine, Iodine, Selenium, Tellurium, Bismuth, Antimony, Arsenic, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Zinc, Lead, Silver, Gold, Platinum, Palladium, Rhodium, Iridium, Osmium, Rhenium, Molybdenum, Niobium, Tantalum, Vanadium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Zinc, Lead, Silver, Gold, Platinum, Palladium, Rhodium, Iridium, Osmium, Rhenium, Molybdenum, Niobium, Tantalum

Defiance Mine



WULFENITE

ASDM #10371

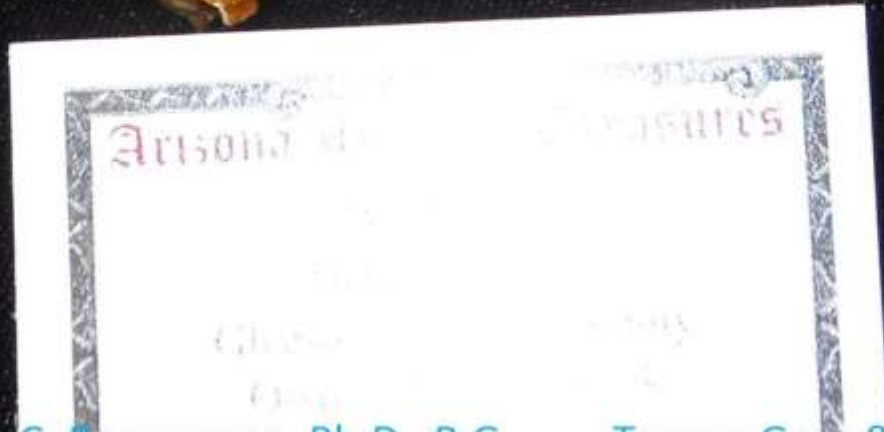
DEFIANCE MINE
GLEESON, COCHISE COUNTY
ARIZONA



Arizona Mineral Treasures
Wulfenite
Defiance mine,
Gleeson, Cochise County
Owens



Arizona Mineral Treasures
Wulfenite
Deliance mine,
Gleeson, Cochise County
Owner: Les and Paula Presmyk



Arizona Mineral Treasures

Wulfenite

Defiance mine,
Gleeson, Cochise County
Owner: Tony Potucek





Owner

Arizona Mineral Treasures
Wulfenite
Delianed mine
Gleeson, Cochise County
Owner: Tony Pottick



Arizona Mineral Treasures

Wulfenite

Detrance mine

Gleeson Cochise County

Owner: Mark Hay



Arizona Mineral Treasures
Wulfenite
Defiance mine.
Gleeson, Cochise County
Owner: Evan Jones



Arizona Mineral Treasures
Wulfenite with Calcite
Defiance mine,
Gleeson, Cochise County
Owner: Scott Lewis



Arizona Mineral Treasures
Wulfenite
Defiance mine, Gleason,
Cochise County
Owner: Rice Northwest
Museum of Rocks and Minerals



Arizona Mineral Treasures
Wulfenite
Deliance mine,
Gleeson, Cochise County
Owner: Joe and Susan Kielbaso



Arizona Mineral Treasures

Wulfenite

Defiance mine.

Gleeson, Cochise County

Owner: Joe and Susan Kiehlbaso







Arizona Mineral Treasures
Wulfenite
Delianto mine
Gleeson, Cochise County
Owner: James [unreadable]



Arizona Mineral Collection
Museum
Museum of Northern Arizona
Flagstaff, Arizona

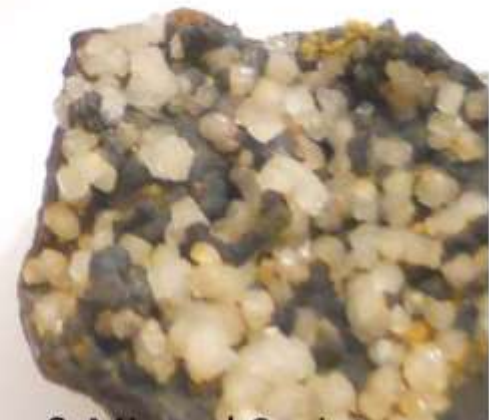


Arizona Mineral Collection
Museum
Museum of Northern Arizona
Flagstaff, Arizona





WULFENITE
Defiance Mine
Cochise County
Arizona





WULFENTIE

Defiance Mine

Arizona



Arizona Mineral Resources

Defiance Mine

Arizona Mineral Resources



Arizona Mineral Treasures
Wulfenite
Defiance mine,
Green, Cochise County
Owner: John Locking





Arizona Mineral Treasures
Wulfenite
Delance mine,
Gleeson, Cochise County
Owner: Les and Paula Presnysk



Arizona Gem & Mineral Society
Arizona Mineral Treasures
Wulfenite
A. J. J. J. J. J.
A. J. J. J. J. J.
A. J. J. J. J. J.



Arizona Mineral Treasures
Wulfenite
Defiance mine
Clifton, Cochise County
Owner: Mark Day



Arizona Mineral Treasures
Wulfenite
Delancey mine
Pinal County



Arizona Mineral Treasures
Wulfenite
Defiance mine.
Gleeson, Cochise County
Owner: Mark Hay



Arizona Mineral Treasures
Wulfenite
Defiance mine, Gleeson,
Cochise County
Owner: Rice Northwest
Museum of Rocks and Minerals



Arizona Mineral Treasures

Wulfenite

Defiance mine,

Gleeson, Cochise County

Owner: Mark Hay

Arizona Mineral Treasures

Wulfenite

Defiance mine,
Gleeson, Cochise County
Owner: Mark Hay





Arizona Mineral Treasures
WULFENITE
3 pcs





Owner

Arizona Mineral Treasures
Wulfenite
Defiance mine,
Cochise County



Arizona Mineral Treasures

Wulfenite

Defiance mine,

Gleeson, Cochise County

Owner: Les and Paula Presmyk



Arizona Mineral Treasures

Wulfenite

Defiance mine.

Gleeson, Cochise County

Owner: Evan Jones



Arizona Mineral Treasures
Wulfenite with Calcite
Defiance mine,
Gleeson, Cochise County
Owner: Scott Lewis



Arizona Mineral Treasures
Wulfenite
Octahedral
and Prismatic Crystals
Largest in the world



Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Defiance Mine

The Defiance mine was opened in the 1880s and operated sporadically until about 1958. It was a small mine, producing only about 10,000 tons of mostly lead and silver ore. However, the mine has become known to collectors all over the world for the exceptional wulfenite specimens that were found in great abundance near the end of mining. In early 1957, huge solution cavities were encountered that were lined with fabulous crystallizations of wulfenite on soft manganese oxides. The largest of these measured over 5 feet high by 20 feet wide and 46 feet long. The late Richard Bideaux described collecting in one of these cavities: "It was an unforgettable experience to crawl into this pocket and be completely surrounded by millions of glittering crystals. Many hundreds of pounds of wulfenite were in sight, so easy to collect that specimens could be pried from the walls without even using tools." The distinctive spearhead-shaped crystals reach 2 ¾ inches and are often edged with small, lustrous calcite crystals. Choice specimens can be found in public museums and private collections throughout the world.



AZMMM #MM-M900 wulfenite Defiance mine







WULFENITE
Lead Molybdate
Defiance Mine, Cochise Co., AZ
Donors: Wayne & Sarah Foster
MM-9904

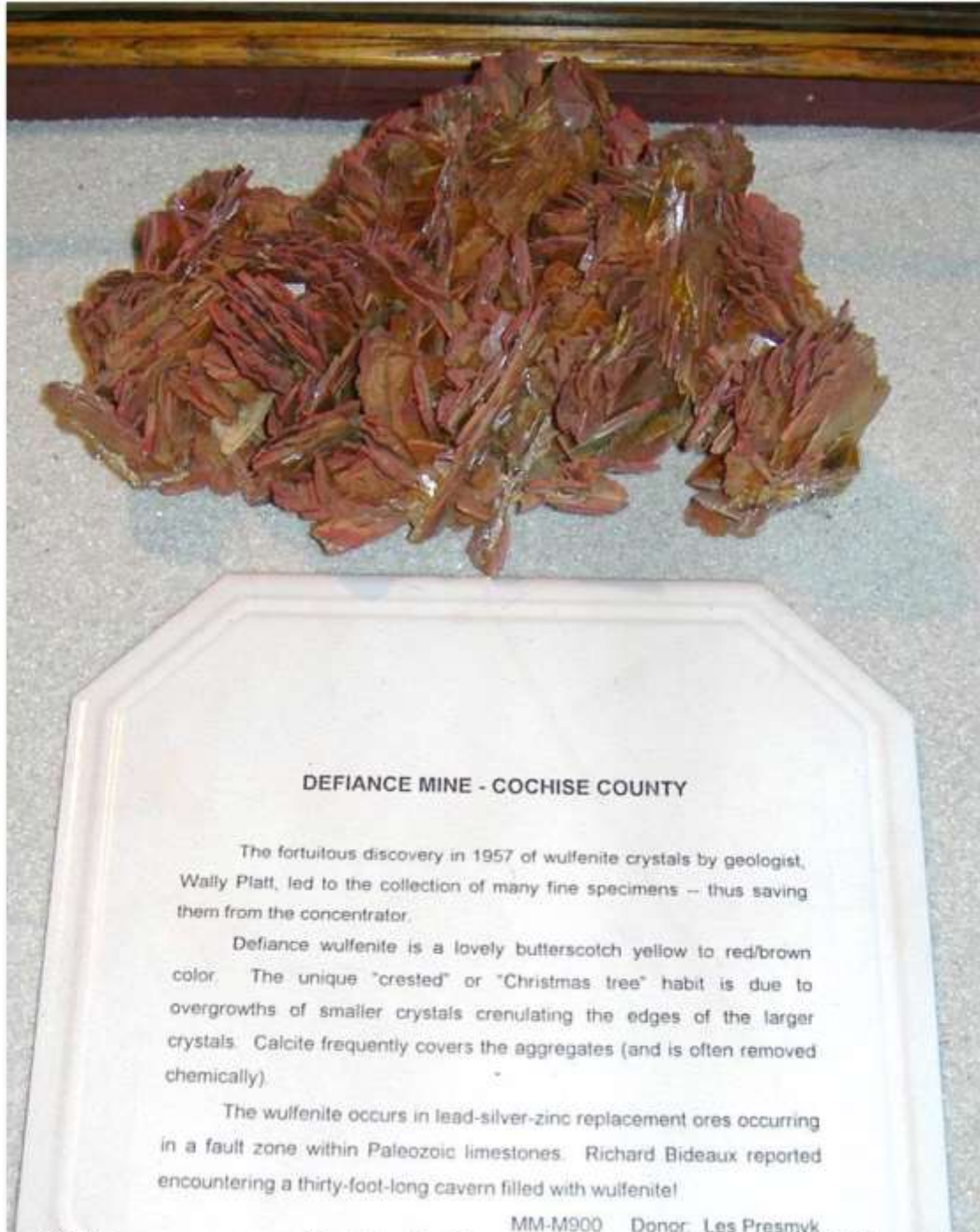


DEFIANCE MINE - COCHISE COUNTY

The fortuitous discovery in 1957 of wulfenite crystals by geologist, Wally Platt, led to the collection of many fine specimens -- thus saving them from the concentrator.

Defiance wulfenite is a lovely butterscotch yellow to red/brown color. The unique "crested" or "Christmas tree" habit is due to overgrowths of smaller crystals crenulating the edges of the larger crystals. Calcite frequently covers the aggregates (and is often removed chemically).

The wulfenite occurs in lead-silver-zinc replacement ores occurring in a fault zone within Paleozoic limestones. Richard Bideaux reported encountering a thirty-foot-long cavern filled with wulfenite!



DEFIANCE MINE - COCHISE COUNTY

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MM-M900 Donor: Les Presmyk



MM-M900 wulfenite Defiance mine donor Les Presmyk



AZ MMMM #MM-M900 wulfenite Defiance mine donor Les Presmyk





WULFENITE
Lead Molybdate
Defiance Mine, Gleeson, Cochise Co., AZ
Donor: John Weber
MM-T175





in CO, AZ
MMA 7575

FEIN



WULFENITE
Lead Molybdate

Gleeson, Cochise Co., AZ

Donor: Lorraine Kilpatrick

MM-T427



ENITE
molybdate

hise Co., AZ
ne Kilpatrick

MM-T427

MM-T427

Glove Mine Wulfenite

Photos by Jan Rasmussen Copyright Jan. 9, 2017
Taken in 2010 at Arizona Mining & Mineral Museum
Or Taken in 2012 at TGMS Arizona Mineral Treasures





Arizona Mineral Treasure

Wulfenite

Glove Mine, near Amado

Santa Cruz county

Owner: Mark Hay



Arizona Mineral Tre

Wulfenite

Glove Mine, near Ama

Santa Cruz county

Owner: Mark Hay



Arizona Mineral Treasur

Wulfenite

Glove Mine, near Amado

Santa Cruz county

Owner: Les & Paula Presmyk



Arizona Mineral Treas
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Bob Kerr



Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado, Santa
Cruz county
Owner: University of Arizona
Mineral Museum



Arizona Mineral Treasures

**Descloizite and Wulfenite
on quartz**

Glove Mine, near Amado
Santa Cruz county
Owner: Mark Hay



Arizona Mineral Treas

Cerussite

Glove Mine, near Amado
Santa Cruz county
Owner: Francis Sousa



WULFENITE
"THE DUMBBELL"

ASDM #10251

GLOVE MINE
NEAR AMADO, SANTA RITA MTNS
SANTA CRUZ COUNTY
ARIZONA



WULFENITE

ASDM #10789

**GLOVE MINE
NEAR AMADO. SANTA RITA MTNS
SANTA CRUZ COUNTY
ARIZONA**



Arizona Mineral Treas

Wulfenite

Glove Mine, near Amado

Santa Cruz county

Owner: Tom Hughes



Arizona Mineral Treasures

Wulfenite

Glove Mine, near Amado
Santa Cruz county

Owner: Barbara L. Muntyan



Arizona Mineral Treasu

Hemimorphite

Glove Mine, near Amado

Santa Cruz county



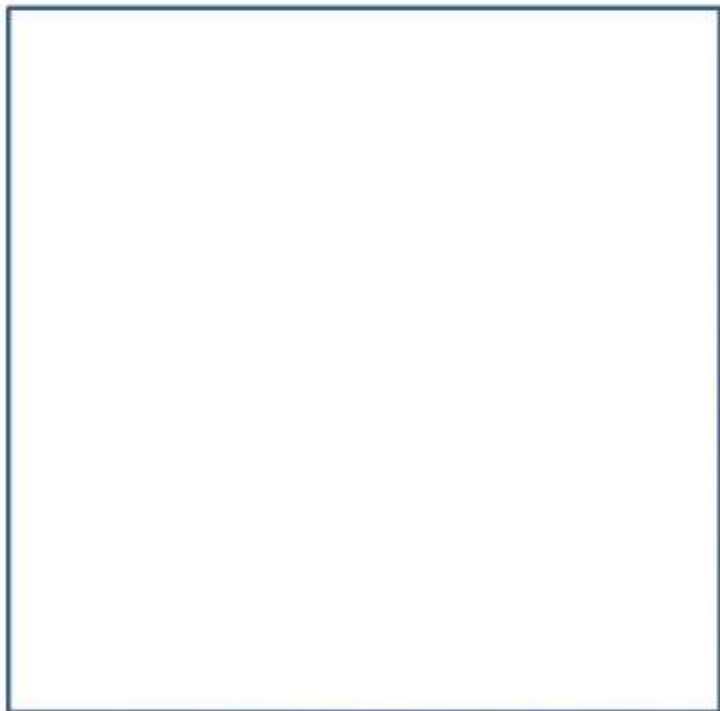
substantial pocket was found. In addition to wulfenite, the
Glove also produced smithsonite, hemimorphite, cerussite,
vanadinite, descloizite, etc. The mine is
presently not

Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Evan Jones

5



Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Mark Hay



Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Paul S. Harter

WULFENITE
Glove Mine, Santa Rita Mts.
Santa Cruz Co., Arizona



Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Collectors Edge Minerals, Inc.

WULFENITE
Glove Mine
all Dist., Santa Cruz Co., AZ



Arizona Mineral Treas

Wulfenite

Glove Mine, near Amado

Santa Cruz county

Owner: Mark Hay



Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Paul S. Harter

Wulfenite

Glove Mine, near Amado
Santa Cruz county
Owner: Paul S. Harter

Arizona Mineral Treasures

Wulfenite

Glove Mine, near Amado, Santa
Cruz county
Owner: University of Arizona
Mineral Museum





Arizona Mineral Treasures
Wulfenite with Deschlorite
Glove Mine, near Amado
Santa Cruz county
Santa Cruz Hill

WULFENITE
Glove Mine
Santa Cruz County, Arizona



Arizona Mineral Treasures

Wulfenite

Glove Mine, near Amado

Santa Cruz county

Owner: Les & Paula Presmyk



Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Les & Paula Presmyk

Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Mark Hay

Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Les & Paula Presmyk



Arizona Mineral Treasures

Wulfenite

Glove Mine, near Amado
Santa Cruz county
Owner: Mark Hay



Arizona Mineral Treasures

Wulfenite

Glove Mine, near Amado

Santa Cruz county

Owner: Mark Hay



Arizona Mineral Treasures

Wulfenite

Glove Mine, near Amado

Owner: Carnegie Museum

Of Natural History





Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Bob Kerr



Arizona Mineral Treasures

Wulfenite

Glove Mine, near Amado
Santa Cruz county

Owner: Martin Zinn



Arizona Mineral Treasu

Wulfenite

Glove Mine, near Amado
Santa Cruz county

Owner: Bob Kerr



Arizona Mineral Treasures

Mottramite on wulfenite
Glove Mine, near Amado
Santa Cruz county
Owner: Les & Paula Presmyk



Arizona Mineral Treasures
Wulfenite

Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Owner: Carnegie Museum
Of Natural History



Arizona Mineral Treasures
Wulfenite
Glove Mine, near Amado
Owner: Carnegie Museum
Of Natural History



Arizona Mineral Treas

Wulfenite

Glove Mine, near Ama

Santa Cruz county

Owner: Dick Morris



Arizona Mineral Occurrences
Arizona Wulfenite:
The finest known locality

[Detailed text describing the mineral's properties and localities follows in smaller print.]





Arizona
Mineral Museum





WULFENITE
Lead Molybdate

Santa Cruz Co., AZ
Mining Museum Foundation

WULFENITE
Lead Molybdate
Globe Mine, Santa Cruz Co.



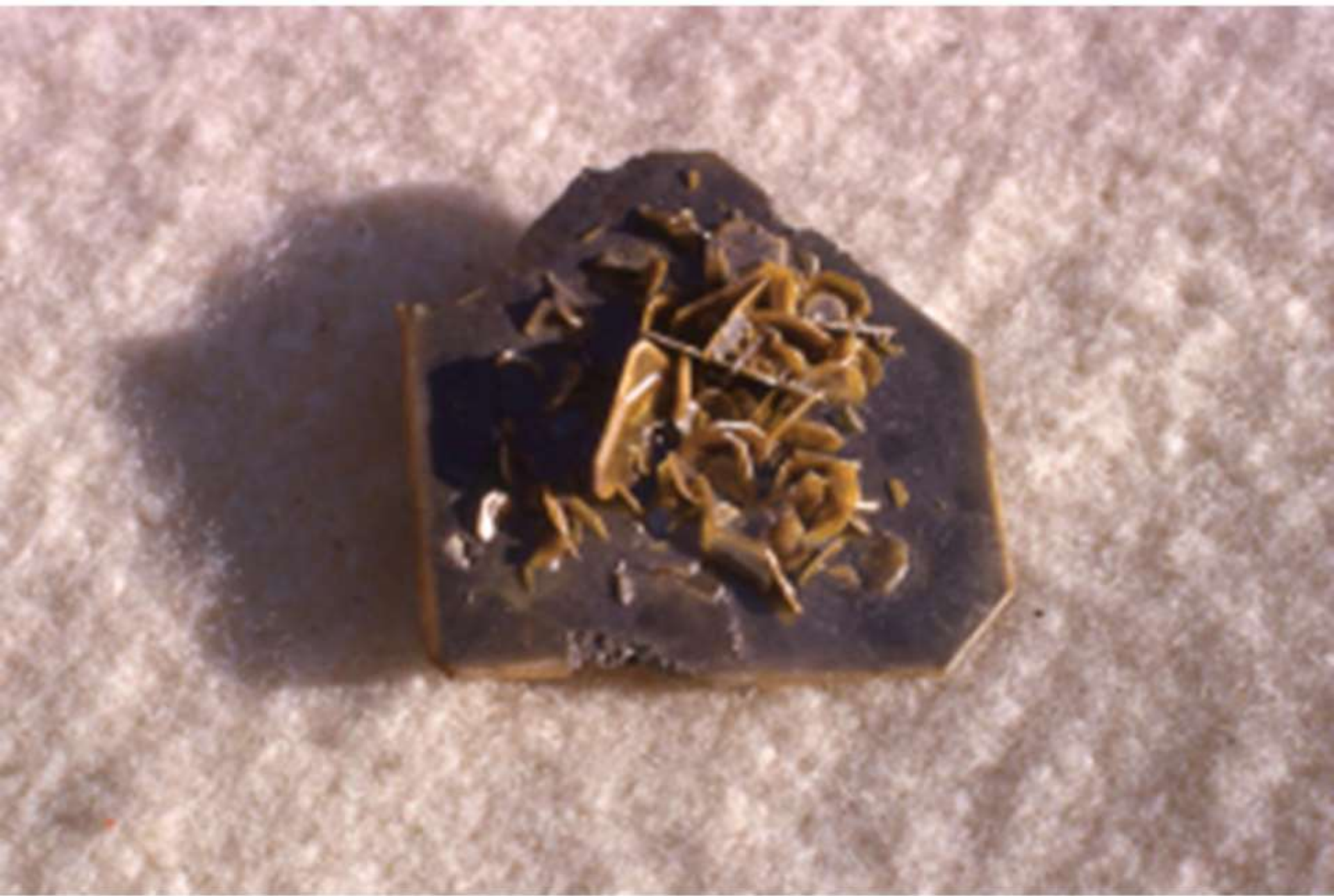


PHENITE
Barium Oxide
Santa Cruz Co., AZ
Mark Hay
MM-P481















MM-8564

WULFENITE
Lead Molybdate

Glove Mine, Santa Cruz Co., AZ

Donor: Barbara Langland

MM-K664







WULFENITE
Lead Molybdenum Oxide
Grove Mine, Arado, Santa Cruz Co., AZ
Donor: Mark Hay
MM-P481







American Mineral Treasures Exhibition
TUCSON GEM & MINERAL SHOW 2008

American Mineral Treasures Exhibition
TUCSON GEM & MINERAL SOCIETY
Wulfenite
Glove Mine
Santa Cruz Co., Arizona
Owner: Arizona Mining and Mineral Museum



W
L
Villtop M
On Loan From: A

GLOVE MINE - SANTA CRUZ COUNTY

Glove wulfenite occurs in pockets in the limestones flanking the main lead-zinc-silver ore body. More than twenty pockets have been discovered – each with its own unique color and form. The largest pocket, removed by Harry Olson in 1958, produced about 100 flats of what has become the most famous Glove wulfenite – flat, butterscotch yellow, tablets with rounded outlines (MM-2064). But, as these specimens demonstrate there is unusual variety among the wulfenites of the Glove Mine.

MM-P481 Donor: Mark Hay

MM-T554



WULFENITE
Lead Molybdate

Glove Mine, Amado, Santa Cruz Co., AZ

From: AZ Mineral & Mining Museum Foundation

3458



35x5

5x7



124

Descloizite, copper zinc lead vanadate
Glove mine, near Amado, Arizona
green botryoidal on wulfenite
2-1/2x2x1-1/2



MAC – Hilltop Mine

Photos by Jan Rasmussen

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Or Taken in 2012 at TGMS Arizona Mineral Treasures





WULFENITE
Lead Molybdate
Hilltop Mine, Cochise Co., AZ

On Loan From: AZ Mineral & Museum Foundation





Arizona Mineral Treasures

Wulfenite

Hilltop mine, California District
Cochise County

Owner: Malcolm Alter



Arizona Mineral Treasures
Wulfenite on Calcite
Hilltop mine, California District
Cochise County
Owner: Mark Hay



Arizona Mineral Treasures

Wulfenite on Calcite

Hilltop mine, California District

Cochise County

Owner: Les & Paula Presnyk



Arizona Mineral Treasures
Wulfenite
Hilltop mine, California district,
Cochise County
Arizona-Sonora
Museum

WULFENITE
Hilltop Mine,
Hilltop, Cochise County, Arizona



Arizona Mineral Treasures
Wulfenite on Calcite
Hilltop mine, California District
Cochise County
Owner: Mark Hay



Arizona Mineral Treasures
Calcite
Hilltop mine, California District
Cochise County
Owner: Evan Jones

specimens are highly
seems and private
field-collector Ed Over
in 1939, the location



Arizona Mineral Treasures
Wulfenite on Calcite
Hilltop mine, California District
Cochise County
Owner: Les & Paula Prosser

Arizona Mineral Treasures
Wulfenite on Calcite
Hilltop mine, California District
Cochise County
Owner: Evan Jones



Mining Company a
work was done! The
through the mountai
both sides. It was ov
used by children to g
was moderate but the
ful wulfenite specime
with company approv
which were placed in
collector or mineral de
purchase them. The F
distinctive wulfenite l
sought after and can b
collections world-wide
discovered a major wu
of his pocket remains a



Arizona Mineral Treasures
Wulfenite
Hilltop mine, California
Cochise County
Owner: Rice North
Museum of Rocks and Minerals

Arizona Mineral Treasures
Wulfenite on Calcite
Hilltop mine, California District
Cochise County
Owner: Dick Morris



Arizona Mineral Treasures
Wulfenite on Calcite
Hilltop mine, California District
Cochise County
Owner: Frank Sousa



Arizona Mineral Treasures
Wulfenite
Hilltop mine, California district,
Cochise County, Arizona
Owner: Montana Tech
Mineral Museum



Arizona Mineral Treasures

Wulfenite

Hilltop mine, California district,
Cochise County, Arizona
Owner: Montana Tech
Mineral Museum



Arizona Mineral Treasures
Wulfenite on Calcite
Hilltop mine, California District
Cochise County
Owner: Mark Hay



WULFENITE

Hilltop Mine

Cochise Co., Arizona

Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Hilltop Mine

The Hilltop mine is located in the Chiricahua Mountains of Cochise County, east of the Chiricahua National Monument. Mining began in the 1880s for lead-silver ore. In 1913 the property was acquired by the Hilltop Metals Mining Company and over 20,000 feet of underground work was done! The Kasper tunnel was dug completely through the mountain, linking mining camps located on both sides. It was over 3,000 feet long and was reportedly used by children to get to and from school. Ore production was moderate but the mine became famous for its wonderful wulfenite specimens. During the mid 1920s the miners, with company approval, collected wulfenite specimens which were placed in the mine's "treasure room" until a collector or mineral dealer would come to the mine to purchase them. The Hilltop is considered one of Arizona's distinctive wulfenite localities. Its specimens are highly sought after and can be found in museums and private collections world-wide. The famous field-collector Ed Over discovered a major wulfenite pocket in 1939; the location of his pocket remains a mystery.



HILLTOP MINE COCHISE COUNTY



HILLTOP MINE COCHISE COUNTY

The Hilltop Mine Group -- consisting of 20+ claims, claimed prior to 1920 -- is located on the slopes of the Chiricahua Mountains in the California Mining District of Arizona. Originally a gold and silver mine, it later was a significant producer of lead and molybdenum. The Hilltop wulfenite crystals are tabular, bright butterscotch yellow and are rare, making them highly sought after by collectors.



3.5x5



MAC – Old Yuma Mine

Photos by Jan Rasmussen

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Taken in 2010 at Arizona Mining & Mineral Museum

Or Taken in 2012 at TGMS Arizona Mineral Treasures

Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Old Yuma Mine

The Old Yuma mine is located in the Tucson Mountains of Pima County, Arizona, about nine miles by road northwest of the Tucson city limits. The mine has produced some of Arizona's largest and finest yellow-orange wulfenite crystals is also known for some of America's finest specimens of vanadinite. Sizeable pockets of these minerals have been found there intermittently since the 1880s, and during the 1930s so much wulfenite was encountered by miners that it was crushed and processed for its gold content. Joe Brooks Davis (husband of the late, well-known mineral dealer Suzie Davis) of Tucson filed claims across the Old Yuma property in 1958 and 1959. Gene Schlepp and John Cesar discovered rich pockets of wulfenite crystals there, as have other collectors since then. The property was later claimed and worked by Dick Jones, who transferred his claim to Wayne Thompson. The mine was then acquired by Richard Bideaux, and has since been absorbed into the Saguaro National Park. Collecting there is now permanently forbidden by law.





Mineral of Arizona
Feb. 9 to Feb. 11





Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, Tucson

Pima County

Owner: Dona & Wayne Leicht



WULFENITE

ASDM #8570

OLD YUMA MINE
CORTERO, TUCSON MOUNTAINS
PINAL COUNTY
ARIZONA



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Jim and Gail Spann



Arizona Mineral Treasures

Wulfenite

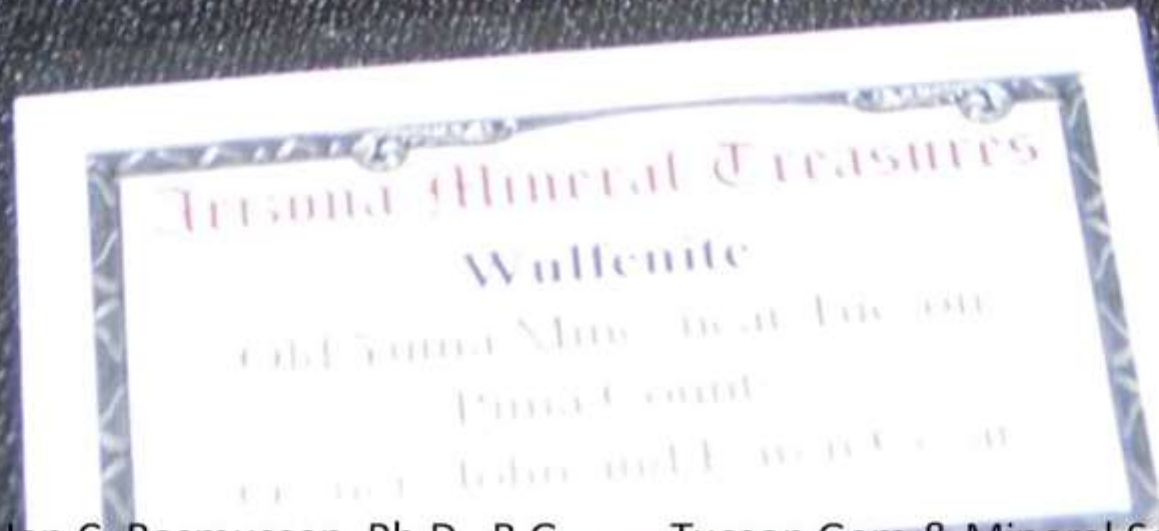
Old Yuma Mine, near Tucson

Pima County

Owner: Mark Hay



Arizona Mineral Treasures
Vanadinite
Old Yuma Mine, near Tucson
Pima County
Owner: Dick Morris



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine near Pinal
Pinal County

Weight: 1.0000 g
Size: 1.5 x 1.0 x 0.5 cm



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine near Tucson
Pima County
October 1961



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Arizona-Sonora
Desert Museum



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: John and Karen Cesar



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Frank Sousa



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Arizona-Sonora
Desert Museum



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Frank Sousa



Arizona Mineral Treasures

Vanadinite

Old Yuma Mine, near Tucson

Pima County

Owner: Evan Jones



Arizona Mineral Treasures

Vanadinite

Old Yuma Mine, Tucson

Pima County

Owner: Tony Potucek



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: Mike & Cynthia Marino



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Discovery: John and Fannie Cook



Arizona Mineral Treasures
Wulfenite and Vanadinite
Old Yuma Mine, near Tucson
Pima County
Owner: Les & Paula Presmyk



Arizona Mineral Treasures
Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: John and Karen Cesar



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Arizona



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Les & Paula Presmyk



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: John and Karen Cesar



Wulfenite

*Old Yuma Mine
Cortaro*

Pima County

On Loan – Bill and Robbie McCarty

4



WULFENITE
Old Yuma Mine, Tucson Mtns.
Pima Co., Arizona

Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Jim and Gail Spann



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: John and Karen Cesar



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: Les & Paula Presmyk



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: John and Karen Cesar



Arizona Mineral Treasures

Wulfenite and Vanadinite

Old Yuma Mine, near Tucson

Pima County

Owner: Les & Paula Presmyk



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Dick Morris



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Dick Morris



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Dick Morris



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Paul Harter



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County



Arizona Mineral Treasure

Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: Arizona-Sonora

Desert Museum



Arizona Mineral Treasures
Wulfenite
Tucson Gem & Mineral Society program



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Paul Harter



Arizona Mineral Treasure

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Dick Morris



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: John and Karen Cesar



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County, Arizona



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Arizona



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson,
Pima County
Owner: Barbara L. Muntayan



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Evan Jones





Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Dick Morris



Arizona Mineral Treasures
Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: Arizona-Sonora
Desert Museum



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Paul Harter



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Dick Morris



Arizona Mineral Treasure

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Dick Morris



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Dick Morris



Arizona Mineral Treasures

Wulfenite and Vanadinite

Old Yuma Mine, near Tucson

Pima County

Owner: Les & Paula Presmyk



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson
Pima County

Owner: John and Karen Cesar



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Les & Paula Prosser



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Evan Jones



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: Barbara J. Muntavan



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: Mark Hay



Arizona Mineral Treasures
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Owner: John and Karen Cesar



Arizona Mineral Displays
Wulfenite
Old Yuma Mine, near Tucson
Pima County
Chapman, Nicks & Cynthia Marino



Arizona Mineral Treasures

Wulfenite

Old Yuma Mine, near Tucson

Pima County

Owner: John and Karen Cesar



OLD YUMA MINE - PIMA COUNTY

Found in the foothills of the Tucson Mountains, the Old Yuma Mine has produced wulfenite specimens since 1886.

The generally small crystals are unusually bright orange, but may be greenish black to black and even bi-colored. The black color is due to the presence of fine gold.

Some specimens may located from the Comet Mine, as in 1980, Dick Jones renamed the mine.





Arizona Mineral Treasures

Vanadinite

Old Yuma Mine, near Tucson

Pima County

Owner: Les & Paula Presmyk



Arizona Mineral Treasures

Vanadinite

Old Yuma Mine, Tucson

Pima County

Owner: Tony Potucek

MAC –Red Cloud Mine

Photos by Jan Rasmussen

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Taken in 2010 at Arizona Mining & Mineral Museum
Or Taken in 2012 at TGMS Arizona Mineral Treasures



Arizona Mineral Treasures
A map of Arizona showing the location of the Red Cloud Mine in the southeastern part of the state.

Arizona Mineral Treasures
Red Cloud Mine
Silver, Hematite, Lead, Zinc, Copper

Arizona Mineral Treasures
Red Cloud Mine
A detailed text panel providing historical information about the mine's operations and mineral production.

ARIZONA RED CLOUD MINING COMPANY
A large framed document, likely a company charter or deed, with a blue decorative border and a signature at the bottom.



Wulfenite
Red Cloud Mine, Trigo #79,
La Paz Co., Arizona, U.S.A.

Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Marc Mitterman

Arizona Mineral Treasures
Wulfenite

Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Red Cloud Mine

Wulfenite from the Red Cloud mine in the Silver District of La Paz County, Arizona is widely regarded as the world's most desirable examples of the species. Top quality crystals over two inches in size are rare, but fine specimens have been reaching the market sporadically ever since Philadelphia mineral dealer A. E. Foote first visited the locality in the 1880s. For sheer size, beauty, and rose-red color, the specimens found by Ed Over in 1938 have never been surpassed. However, a major strike in 1996 by a group headed by Wayne Thompson produced fabulous crystal clusters which, in their own way, have also never been equaled. Thus, for well over a century, the Red Cloud mine has been giving up superb specimens and refuses to be considered "worked out." It is entirely possible that more bonanzas remain hidden in its depths, but access to the underground workings is now blocked off and it may be many years before collecting again takes place there.

WULFENITE

AS

RED CLOUD MINE
TRIGO MOUNTAINS
LA PAZ COUNTY
ARIZONA





No. DATA *617*
SPECIES *Wulfenite,*
LOCALITY *Red Cloud Mine,*
Yuma Co.,
Arizona.

GEO. L. ENGLISH & CO., 1512 Chestnut St., Philadelphia, Pa.



Arizona Mineral Treasures

Wulfenite

Red Cloud Mine

La Paz County

Owner: Dona & Wayne Leicht



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Ed Huskinson



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Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: Marc Miterman



Wulfenite

Red Cloud Mine, Trigo Mts.
La Paz Co., Arizona, U.S.A.



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Paul Harter

Mineral Treasures
Sulfenite
Copper mine
La Paz County
Geologic Museum





Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: L. & Paul Preston



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Dick Morris



WULFENITE
Red Cloud mine
La Paz Co., Arizona

Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

owned by Jan & Gail Spain



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Evan Jones



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Jim & Gail Spann



Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: Carnegie Museum



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Evan Jones



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: John Lu



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Yale University



Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: ~~William Severance~~

Stan Keith



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver Lake, La Paz County
O. Morris

Red Cloud mine
Silver Lake, La Paz County
Oro Morris



Arizona Mineral Treasures



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, Pima County
Tucson, Arizona

Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, Pima County
Tucson, Arizona



Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: Tony Potucek

Red Cloud mine
Silver District, La Paz County
Owner: Jim



Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: Dick Morris



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Daniel Trincello



Wulfenite

Red Cloud mine,
La Paz Co., Arizona

AMMMF 3325



WULFENITE
Red Cloud Mine
Trigo Mtns., La Paz County, Arizona
Ex Wenzel, Francis, Bently, Shortmanns
Collected by Edwin P. Over, Jr., 1938



WULFENITE
Red Cloud Mine, 270' Level
Trigo Mtns., La Paz County, Arizona
Ex Mark Hay Collection, 2003
Collected by George Godas, 1986



Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: Les & Paula Presn



WULFENITE
Red Cloud Mine
La Paz Co., Arizona

Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Quartz Hill & Gil Spans



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Eva Jones



WULFENITE & MIMETITE
1891-1892
Silver Cloud Mine
La Paz Co., Arizona

Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Jim & Gail Spann



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Carnegie Museum





Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Evan Jones

Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: John Lucking



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
~~Owner: Stephen Smale~~
Stan Keith

Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

~~Owner: Stephen Smale~~

Stan Keith





Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County



Red Cloud mine
Silver District, La Paz County
Owner: Dick Morris

Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Owner: Dick Morris



Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: Tony Potucek



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Dr. Dick Morris



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County
Diner, Evan Jones



Wulfenite

Red Cloud Mine, Trigo Mts.
La Paz Co., Arizona, U.S.A.







Arizona Mineral Treasure
Wulfenite
Red Cloud mine



Arizona Mineral Treasures

Wulfenite

Red Cloud mine

Silver District, La Paz County

Owner: Ed Huskinson



Arizona Mineral Treasures
Wulfenite
Red Cloud mine
Silver District, La Paz County



Arizona Mineral Treasures
Wulfenite
Revelation Claim
La Paz County
Owner: Colleen Shannon



MM-T274



WULFENITE

Red Cloud Mine, Yuma, La Paz Co., AZ

Donor: Les Presmyk

Campbell mine
Yavapai Co., Arizona

MMMF 779



Wulfenite

Red Cloud mine,
La Paz Co., Arizona



WULFENITE
Lead Molybdenum Compound

Red Cloud Mine, La Paz

Donor: Les & Paula P



MM-T274

WULFENITE

Red Cloud Mine, Yuma, La Paz Co., AZ

Donor: Les Presmyk



Wulfenite on matrix

*Red Cloud Mine
Trigo Mountains*

La Paz County

On Loan – Bill and Robbie McCarty

422



WULFENITE & VANADINITE
Red Cloud Mine, La Paz County

Jefferis bought this specimen of wulfenite in 1887. That was nearly 100 years before La Paz County was split off from Yuma County in 1983.

No. 10951	<i>Wulfenite.</i>
Name.	
Locality.	<i>Yuma Co.</i>
	<i>Arizona.</i>
FROM The Collection of W. W. Jefferis	



Wulfenite

PbMoO_4

Red Cloud Mine, Trigo Mts.,
La Paz Co., AZ

HMM# 92997









RED CLOUD MINE - LA PAZ COUNTY





Red Cloud Mine, Yuma County,
Arizona.

Wulfenit

oP. $\frac{1}{3}$ P. $\frac{1}{2}$ P. $\frac{1}{2}$ P ∞ . $\frac{1}{m}$ P ∞ .

Blatz, Heidelberg.

April, 1887.

WULFENITE
Red Cloud mine
Near Yuma, Ariz.



Minerals USA

29



Azurite

Minerals USA

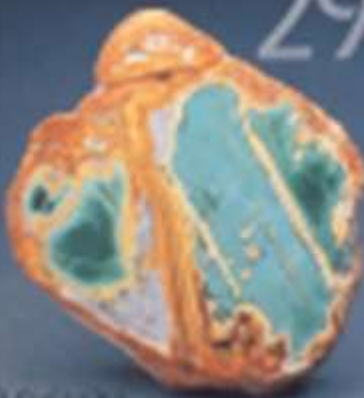
29



Copper

Minerals USA

29



Variscite

Minerals USA

29



Wulfenite



Arizona Mineral Treasures

Mimetite

Red Cloud mine

Silver District, La Paz County

Owner: Evan Jones





RED CLOUD MINE - LA PAZ COUNTY

Regarded by many as the world's premier wulfenite locality, the Red Cloud Mine resides in the Silver District north of Yuma, along the Red Cloud and McNeal Faults with several other noted wulfenite and vanadinite mines.

The wulfenite is a distinctive brilliant red (color due to trace amounts of chromium). The tabular crystals are often octagonal in outline with broadly beveled edges. In fact, some of the sturdy wulfenites have been faceted into beautiful stones weighing several carats.

MM-P992





WULFENITE
Lead Molybdenum Oxide
Red Cloud Mine, La Paz Co., AZ
Donor: Les & Paula Presmyk
MM T276



WULFENITE
Lead Molybdenum Oxide
Red Cloud Mine, La Paz Co., AZ
Les and Paula Presmyk
MM T-412



RED CLOUD MINE - LA PAZ COUNTY

Regarded by many as the world's premier wulfenite locality, the Red Cloud Mine resides in the Silver District north of Yuma, along the Red Cloud and McNeal Faults with several other noted wulfenite and vanadinite mines.

The wulfenite is a distinctive brilliant red (color due to trace amounts of chromium). The tabular crystals are often octagonal in outline with broadly beveled edges. In fact, some of the sturdy wulfenites have been faceted into beautiful stones weighing several carats.

MM-P992

WULFENITE
Lead Molybdate
Fish Mine, Kearny, Pinal Co., AZ
Donor: Robert and Catherine Sanders
MM T200



WULFENITE
Lead Molybdenum Oxide
Red Cloud Mine, La Paz Co., AZ











WULFENITE
Lead Molybdenum Oxide
Red Cloud Mine, La Paz Co., AZ
Donor: Les & Paula Presmyk

MM-T274

3.5x5





W
Lead M
Red Cloud
Donor: Le



WULFENITE

Lead Molybdenum Oxide

Red cloud Mine, La Paz Co., AZ

Donor: Les and Paula Presmyk



WULFENITE

Lead Molybdenum Oxide

Red cloud Mine, La Paz Co., AZ

Donor: Les and Paula Pasnyk



WULFENITE
Lead Molybdenum Oxide

Red Cloud Mine, La Paz Co., AZ

MM-T565



WULFENITE
Lead Molybdenum Oxide

Red Cloud Mine, La Paz Co., AZ

MM-T565







4113
Red C
L. 1019

Red Cloud mine, AZ





WULFENITE
 $PbMoO_4$
Red Cloud Mine,
Cochise County, Arizona





WULFENITE
 $PbMoO_4$
Red Cloud Mine,
Yuma County, Arizona

MAC – Silver Bill Mine

Photos by Jan Rasmussen

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Taken in 2010 at Arizona Mining & Mineral Museum
Or Taken in 2012 at TGMS Arizona Mineral Treasures



Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Silver Bill Mine

The Silver Bill mine is located about 80 miles southwest of Tucson near the old mining town of Gleeson. It is probably best known for producing Arizona's finest rosasite specimens, but has also produced fine wulfenite and a variety of secondary copper and zinc minerals. The Silver Bill was actively mined in the 1890s for lead and silver and, for a short period in the 1920s, for zinc and copper. The last production of ore was in 1978. The mine is a mere 400 feet south of the Defiance mine, it's more famous cousin. Discovery of wulfenite at the Defiance in the late 1950s led many collectors to investigate other nearby mines along Gleeson Ridge and in the southern Dragoon Mountains. They discovered wulfenite in the oldest parts of the Silver Bill, and a suite of secondary zinc and copper minerals in the deeper, newer workings of the mine. Scott Lewis of Tucson is the current owner of the mine; his family has held the claims for many, many years. Collecting is not allowed.





Arizona Mineral Treasures
Wulfenite
Silver Bill Mine
Gleeson, Cochise County
Owner: Pete Knudsen

Arizona Mineral Treasures
Hemimorphite
Silver Bill Mine
Gleeson, Cochise County
Owner: Tom Hughes

Arizona Mineral Treasures
Calcite on aurichalcite
Silver Bill Mine
Gleeson, Cochise County
Owner: Tom Hughes

Arizona Mineral Treasures
Smithsonite
Silver Bill Mine
Gleeson, Cochise County
Owner: Tom Hughes

Arizona Mineral Treasures
Aurichalcite
Silver Bill Mine
Cochise County
owner: T. Hughes

Arizona Mineral Treasures
Malachite after azurite
Silver Bill Mine
Gleeson, Cochise County
Owner: Pete Knudsen



Arizona Mineral Treasures

Wulfenite

Silver Hill Mine

Gleason, Cochise County

Owner: Pete Knudsen



Arizona Mineral Treasures
Wulfenite
Silver Bill Mine
Gleeson, Cochise County
Owner: Tony Potucek



Arizona Mineral Treasures

Wulfenite

Silver Bill Mine



Arizona Mineral Treasures

Wulfenite

Silver Bill Mine

Gleeson, Cochise County

Owner: Pete Knudsen



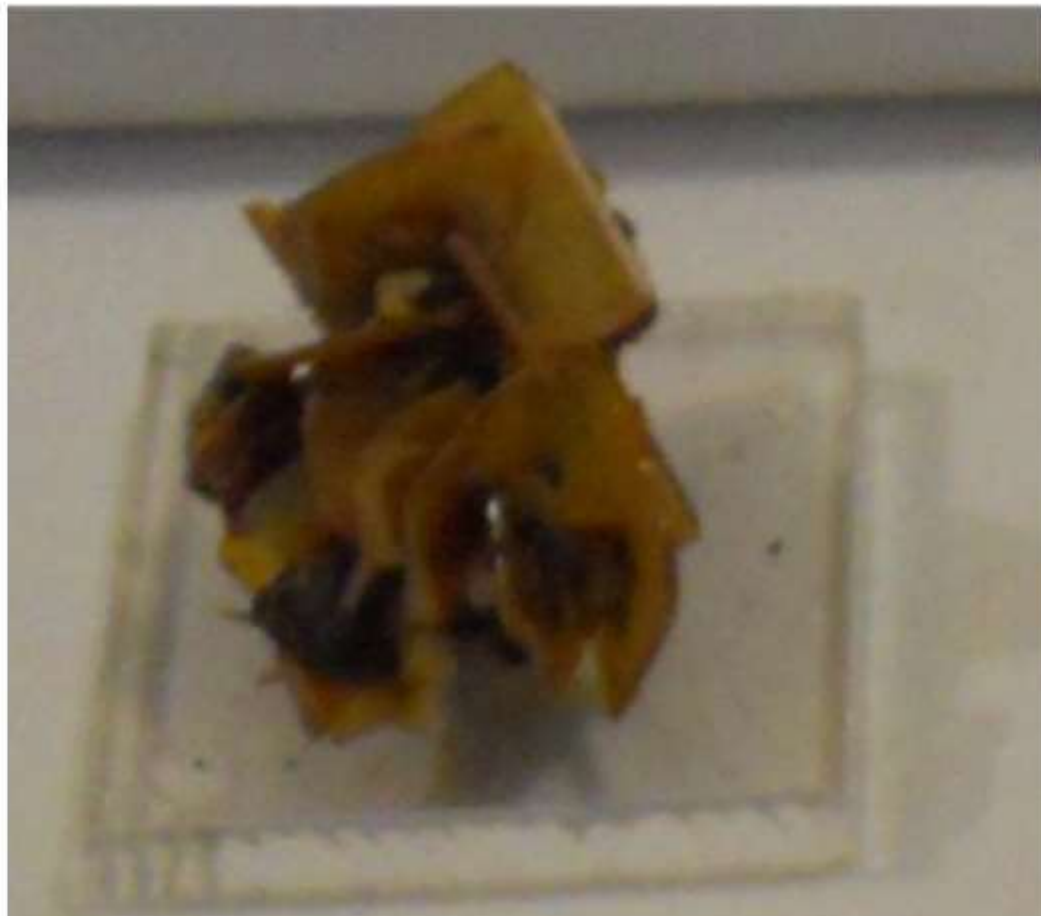
Arizona Mineral Treasures

Wulfenite

Silver Bill Mine

Gleeson, Cochise County

Owner: Pete Knudsen



Arizona Mineral Treasures

Wulfenite

Silver Bill Mine

Gleeson, Cochise County

Owner: Pete Knudsen

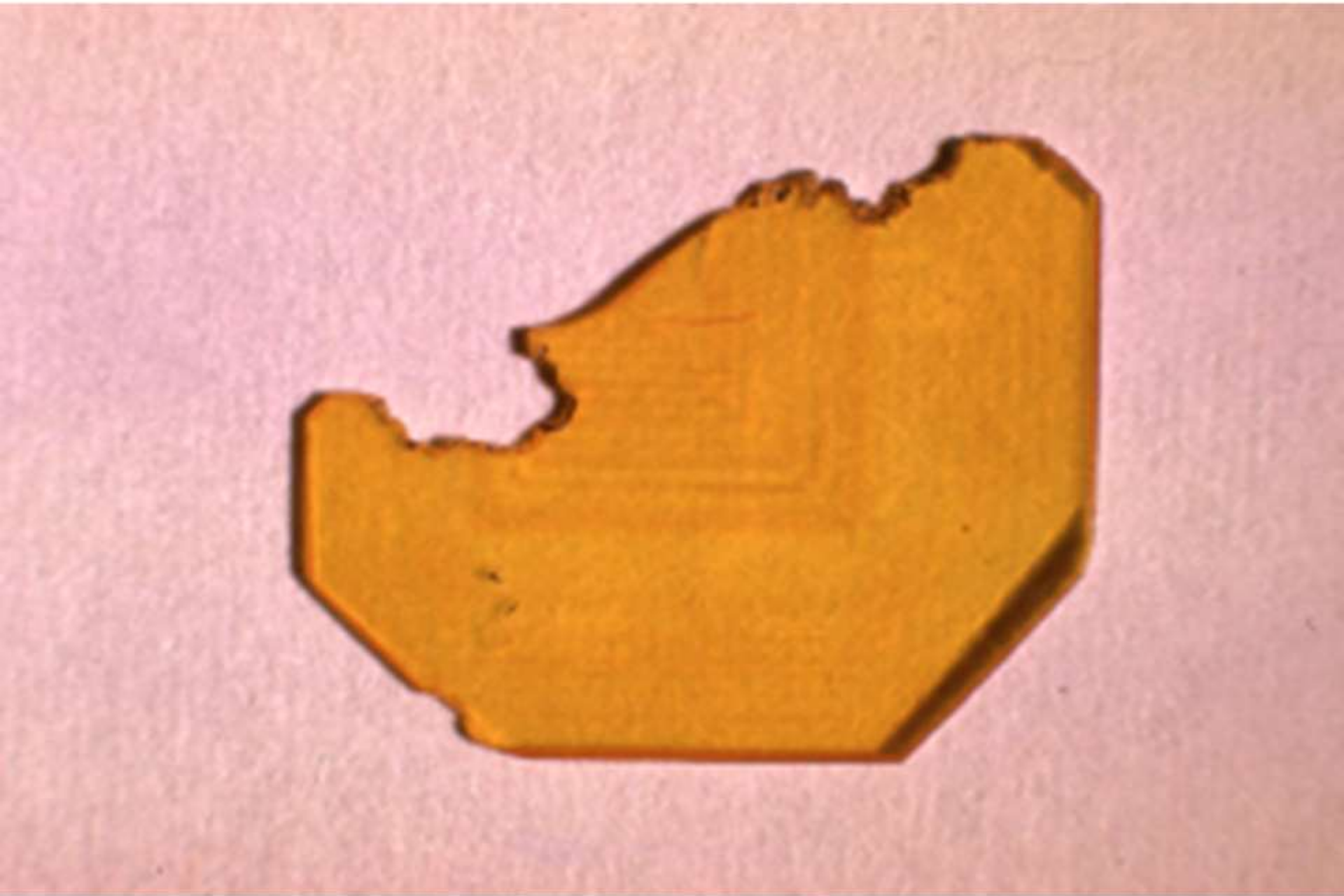
WULFENITE
Lead Molybdate

Silver Bill Mine
Cochise Co, AZ

MM-T52



Lead
Silver Bill





WULFENITE
Lead Molybdenum Oxide

Silver Bill Mine
Cochise Co., AZ

MM-T555



WULFENITE
Lead Molybdate

Silver Bill Mine
Cochise Co, AZ

MM-T55



COCHISE CO, AZ
SILVER BILL MINE
LEAD MOLYBDATE
WULFENITE



MAC - Tombstone

Photos by Jan Rasmussen

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Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Arizona Wulfenite: *the lesser known localities*

Few minerals are as universally admired and coveted by collectors as wulfenite. Its delicate beauty, stunning colors, geometric precision and sheer gorgeousness make it a hands-down favorite. Wulfenite occurs in oxidized near-surface ores of Arizona lead-silver-gold mines. It typically forms glassy, tabular crystals of brilliant red, orange and yellow colors, though it can also be brown and black. During World Wars I and II, wulfenite in Arizona was mined for molybdenum for hardening steel. Professional engineering reports contain heart-breaking descriptions of railroad cars filled with glittering crystals of wulfenite being shipped to the smelter. When it comes to wulfenite, Arizona takes a back-seat to no one. Each of Arizona's eight world-class wulfenite localities have special exhibits dedicated to them (Old Yuma, Red Cloud, Glove, Tiger, Hilltop, Defiance, Rowley and 79 mines). But Arizona has many, many less famous localities that have also produced wonderful specimens. This exhibit is devoted to Arizona's lesser known wulfenite occurrences.



asures
mmed
esp

Arizona Mineral Treasures
Wulfenite
Empire Mine
Tombstone, Cochise County
Owner: Peter Megaw



Arizona Mineral Treasures
Wulfenite
Empire Mine
Tombstone, Cochise County
Owner: Evan Jones



Arizona Mineral Treasures
Wulfenite
Empire Mine, Tombstone
Cochise County
Owner: Mark Hay





Arizona Mineral
Wulfenite
Lizzler Mine, Castle
Yuma

Arizona Mineral Treasures

Wulfenite

Empire Mine, Tombstone

Cochise County

Owner: Dick Mc





SULPHATE
SANTA RITA MOUNTAINS
TUCSON COUNTY, ARIZONA
NUMBER: C. A. 10108



WULFENITE
Lead Molybdate

Toughnut Mine, Tombstone, Cochise Co., AZ

Donor: John Weber

MM-T056



MAC – Total Wreck Mine

Photos by Jan Rasmussen

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Arizona Mineral Treasures
Wulfenite
Total Weight: _____
Pinned _____
Owner: _____





MCA – 79 Mine

Photos by Jan Rasmussen

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Or Taken in 2012 at TGMS Arizona Mineral Treasures



Minerals from the

79 Mine

er District, Gila County



Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

79 Mine

Mike and Pat O'Brien staked their claim in the year 1879, high up on the southwest side of the rugged Dripping Springs Mountains. They named their mine after the year of its discovery. For over 70 years, it was a reasonable producer of lead, zinc and copper and even a little silver and gold, but its real legacy was the mineral specimens it contained. Even among the spectacular wealth of Arizona's mineral localities, the 79 mine holds a special place. It has the lofty distinction of having produced the finest aurichalcite specimens in the world. It is also one of Arizona's eight world-class wulfenite localities. The brilliant yellow-orange, beveled crystals with the small but intense red-dot centers (aka "bleeding heart wulfenite") on glossy black mottramite are sought after by collectors world-wide. The mine also produces hematite, hemimorphite and magnetite. The 79 mine continues to do so. The mine is still active - it is operated for the collection of mineral specimens for



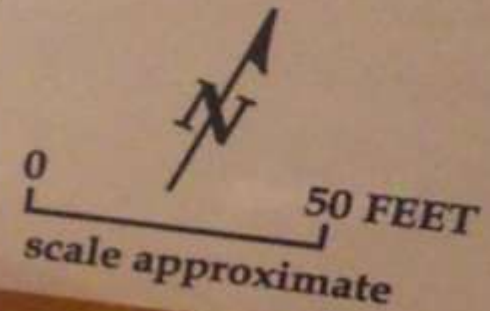
Modified from
1972 plan view by
Windell Wilson

Primary
collecting
areas

4th Level

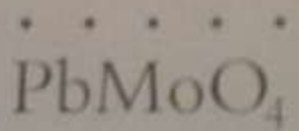
3rd Level

470 Level





Wulfenite



79 mine, Gila County, Arizona





Arizona Mineral Treasures
Wulfenite
4th level, 79 Mine
Gila County
Owner: Stan Keith



Arizona Mineral Treasures
Wulfenite on Mottamite
4th level, 79 Mine
Gila County
Owner: Dick Morris

Arizona Mineral Treasures

Wulfenite on Mottramite

4th level, 79 Mine

Gila County

Owner: Les & Paula Presmyk





Arizona Mineral Treasures
Wulfenite
79 Mine, near Winkelman
Gila County
Owner: Mark Hay



Arizona Mineral Treasures
Wulfenite
Red Cloud Mine
La Paz County
Owner: Dona & Wayne Leicht



Arizona Mineral Treasures
Wulfenite on Mottramite
4th level, 79 Mine
Gila County
Owner: Dick Morris



Arizona Mineral Treasures
Mimetite with Wulfenite
4th level, 79 Mine
Gila County
Owner: Stan Keith

Plattnerite in ...
coating Wulfenite
4th level, 79 Mine, Gila County
Owner: John Callahan



Arizona Mineral Treasures
Mimetite with Wulfenite
4th level, 79 Mine
Gila County
Owner: Stan Keith



Arizona Mineral Treas

Wulfenite
4th level, 79 Mine
Gila County
Owner: Mark Hay

Arizona Mineral Treasures

Wulfenite on Mottramite

4th level, 79 Mine

Gila County

Owner: Les & Paula Presmyk





Arizona Mineral Treasures

Wulfenite

4th level, 79 Mine

Gila County

Owner: Dick Morris



Arizona Mineral Treasures
Plattnerite on Hemimorphite
coating Wulfenite
4th-level, 79 Mine, Gila County
Owner: John Calhoun





Arizona Mineral Treasures
Wulfenite on Mottramite
4th level, 79 Mine
Gila County

Arizona Mineral Treasures

Wulfenite on Mottramite

4th level, 79 Mine

Gila County

Owner: Les & Paula Presmyk

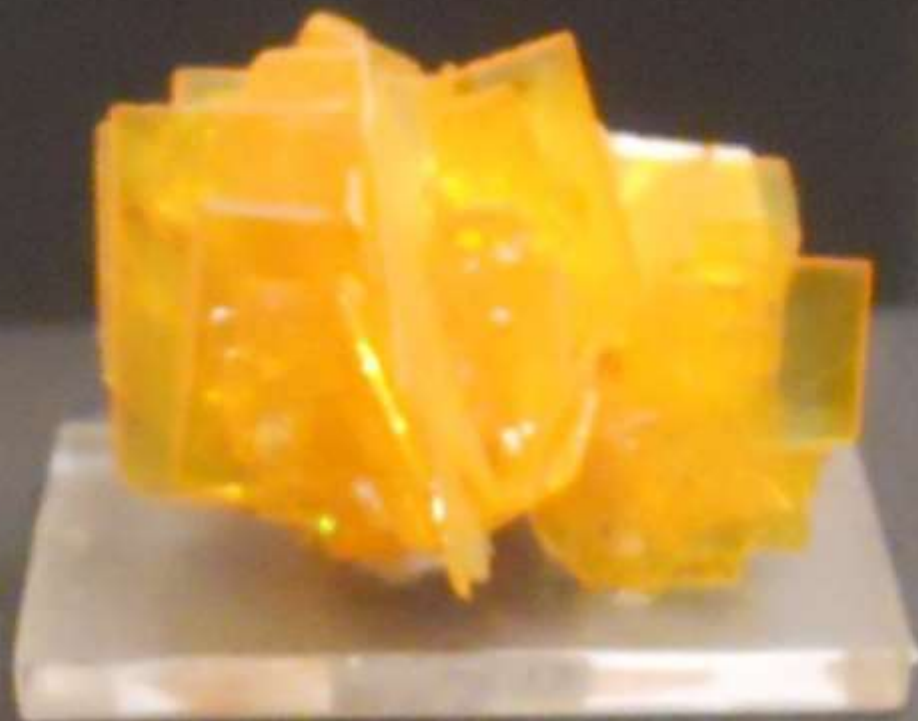




WULFENITE

79 Mine

Gila Co., Arizona



Wulfenite

*79 Mine
Hayden*

Gila County

On Loan – Bill and Robbie McCarty

276



79 MINE - GILA COUNTY



79 MINE - GILA COUNTY

The 79 Mine is considered one of the top ten wulfenite localities in the southwestern United States. Its highly lustrous crystals are often perfectly clear yellow to brilliant orange wafers set against a background of black mottramite. These exhibit some orange/yellow zoning.

Located in the Banner Mining District of southwest Gila County, this lead mine has produced since 1879. The wulfenite is associated with mimetite, apple-green smithsonite, rosasite, hemimorphite and especially fine aurichalcite.

MM-S698



79 MINE - GILA COUNTY



3.5x5



79 MINE - GILA COUNTY





WU
Ahumado
Chil

WULFENITE & MIMETITE
 $PbMoO_4$ & $Pb_3(AsO_4)_2$
4th level, 79 Mine,





WULFENITE

79 Mine, Hayden,
Pinal County,
Arizona

m w r o s e





MCA – Finch Mine

Photos by Jan Rasmussen

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Taken in 2010 at Arizona Mining & Mineral Museum
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ombstone
nty
Hay



Arizona Mineral Treasures

Wulfenite

Finch Mine, near Winkelman

Gila County

Owner: Les & Paula Prossyak

MM-T305



QUARTZ on SULFONITE on
HEMIMORPHITE
Silver Clouds on Lead Molybdate on Zinc
Silicate Hydroxide Hydrate
Finch Mine, Gila Co., AZ



FINCH MINE - PINAL COUNTY

Finch Mine, Gila Co., AZ

MM-5692





3.5x5







QUARTZ on WULFENITE on
HEMIMORPHITE
Silicon Oxide on Lead Molybdate on Zinc
Silicate Hydroxide Hydrate
Finch Mine, Gila Co., AZ
MAA-5092



WULFENITE
Lead Molybdate

Finch Mine, Kearny, Pinal Co., AZ

Donor: Robert and Catherine Sanders

MM-T305

WULFENITE
Lead Molybdenum Oxide

Finch Mine, Kearny, Pinal Co., AZ
Sonora, Mexico

Donor: Ed Davis

MM-T304



Co., AZ
e Sa

WULFENITE
Lead Molybdate

Finch Mine, Kearny, Pinal Co., AZ

Donor: Robert and Catherine Sanders

MM-T305



WULFENITE
Lead Molybdate

Finch Mine, Kearny, Pinal Co., AZ

Donor: Robert and Catherine Sanders

MM-T305







MQA – Mammoth-St. Anthony (Tiger)

Photos by Jan Rasmussen

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Taken in 2010 at Arizona Mining & Mineral Museum
Or Taken in 2012 at TGMS Arizona Mineral Treasures



Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Mammoth-St. Anthony

The Mammoth-St. Anthony mine at Tiger has produced not only large amounts of lead, molybdenum and gold, but also more than 90 different mineral species since Frank Schultz staked the first claims in 1879. The mine began as three separate mining operations that were eventually consolidated; but to mineral collectors it has always been known simply as "Tiger." Prior to its closure in 1953, the mine was an incredible producer of specimen wealth, especially for its last 15 years of ore production. Infamous for cave-ins and fires, Tiger was never a place where amateurs were able to collect freely. Mineral collectors owe a debt of gratitude to the miners who brought specimens home in their lunch pails, to the company officials who supported specimen recovery efforts, and to local dealers like Ed Matteson, George and Archie Griffith, and Scott Williams, who marketed the specimens. The locality is well-known for fine examples of cerussite, diopside, and wulfenite and for rarer species such as leadhillite, diabolite, linarite, caledonite and matlockite. It is also the type locality for bidauxite, wherryite, yedlinite, pinalite, mammothite, and

Mammoth
St. Anthony Mine
Tiger, Maricopa Co. Pinal Co.



Arizona Mineral Treasures
Wulfenite
Mammoth-St. Anthony mine,
Tiger, Pinal County,
Maricopa County, Arizona



CERUSSITE ("blue lead")
 Lead carbonate
 Tegan, Pinal County

MELNITE with VANADINITE
 Vanadium vanadate
 Tegan, Pinal County

MELNITE with VANADINITE
 Vanadium vanadate
 Tegan, Pinal County

VANADINITE with CERUSSITE
 Vanadium vanadate
 Tegan, Pinal County

MELNITE
 Vanadium vanadate
 Tegan, Pinal County

Discovered in 1801 by Manuel Del Rio, the Miners' Boy (Andrés Bello, Tegan, Pinal County) who sold to the "American Gold Mine", then the name. Even the story is spread to the long it found in 1801 the Miners' Boy, a young man who found the gold, silver, lead, zinc, copper, vanadium, and cerussite. For the analysis of cerussite and vanadinite for the Miners' Boy, cerussite, vanadinite, and cerussite with cerussite and vanadinite. The Miners' Boy, cerussite, vanadinite, and cerussite with cerussite and vanadinite. There are three specimens of Miners' Boy, cerussite, vanadinite, and cerussite with cerussite and vanadinite. There are three specimens of Miners' Boy, cerussite, vanadinite, and cerussite with cerussite and vanadinite.

SILICOFLUORITE
 Calcium silicofluoride
 Tegan, Pinal County

with CERUSSITE
 Lead carbonate
 Tegan, Pinal County

with CERUSSITE
 Lead carbonate
 Tegan, Pinal County

SILICOFLUORITE
 Calcium silicofluoride
 Tegan, Pinal County

VANADINITE with DESCLOUZITE
 Vanadium vanadate
 Tegan, Pinal County

VANADINITE with DESCLOUZITE
 Vanadium vanadate
 Tegan, Pinal County

with CERUSSITE & MALACHITE
 Lead carbonate
 Tegan, Pinal County

with CERUSSITE & MALACHITE
 Lead carbonate
 Tegan, Pinal County

DIABOLETTE with CERUSSITE
 Lead carbonate
 Tegan, Pinal County

DIABOLETTE with CERUSSITE
 Lead carbonate
 Tegan, Pinal County



WULFENITE on CALCITE
Lead Molybdate on Calcium Carbonate

Tiger, Pinal Co., AZ

On Loan From: AZ Mineral & Mining Museum Foundation

3265



WULFENITE on CALCITE
Lead Molybdate on Calcium Carbonate

Tiger, Pinal Co., AZ

On Loan From: AZ Mineral & Mining Museum Foundation

3265



MAMMOTH-ST. ANTHONY (TIGER) MINE - PINAL COUNTY

Originally a gold mine, the Tiger Mine was later worked for molybdenum and perhaps 2000 TONS of wulfenite were crushed as ore! Veins several feet wide and filled with wulfenite have been discovered.

The wulfenite is generally a bright orange color with large tabular crystals up to 8 cm across. This specimen is associated with beautiful reticular cerussite.

3269 On Loan From: AZ Mineral & Mining Museum Foundation





CERUSSITE
Lead Carbonate

Tiger, Pinal Co., AZ

from: AZ Mineral & Mining Museum Foundation



WULFENITE & MIMETITE ("hairs")
Lead Molybdate & Lead Arsenate Chloride

Tiger, Pinal Co., AZ

On Loan From: AZ Mineral & Mining Museum Foundation







VANADINITE
Lead Vanadate Chloride
Mammoth-St. Anthony Mine, Pinal Co., AZ
Donor: John Weber
SMA 1

oxidation

CERUSSITE
Lead Carbonate
Tiger, Pinal Co., AZ
AZ Mineral & Mining Museum Foundation
3274

St. Anthony Mine, Pinal Co., AZ
Donor: John Weber
MM-T148





WULFENITE & MIMETITE
Lead Molybdate & Lead Arsenate Chloride

Tiger, Pinal Co., AZ


On Loan From: AZ Mineral & Mining Museum Foundation

3298





WULFENITE with MIMETTE
Mammoth mine
Tiger, Pinal County

 Smithsonian Institution



Cerussite
Campbell shaft, Bisbee,
Cochise Co., Arizona
AMNH 955

Wulfenite and Cerussite
Mammoth-St. Anthony mine, Tiger,
Pinal Co., Arizona
Flagg Mineral Foundation 3269



Wulfenite

Mammoth mine,
Tiger, Pinal Co., Arizona

AMMMF 839c



Wulfenite

$Pb(MoO_4)$

Old Mammoth, Tucson, Pima Co.

AMNH# 16999



WULFENITE, BARITE & MIMETITE
Lead Molybdate, Barium Sulfate & Lead Arsenate Chloride
San Francisco Mine, Magdalena, Sonora, Mexico
Dr. Logan Foshag, U.S. National Mining Museum, Washington, D.C.



Arizona Mineral Treasures

Wulfenite

Ford #2 Mine, near Mammoth
Pinal County
Owner: Evan Jones



Arizona Mineral Treasures

Wulfenite

Ford #1 Mine, near Mammoth

Pinal County

Owner: Les & Paula Presmyk



Wulfenite and Cerussite

Mammoth-St. Anthony mine, Tiger,
Pinal Co., Arizona



Wulfenite

Mammoth mine,
Tiger, Pinal Co., Arizona

AMMMF 839c



Arizona Mineral Treasures
WULFENITE
SCHULTZ CUT, TIGER
PINAL COUNTY,
OWNER: STAN KIETH



Arizona Mineral Treasures

Wulfenite and Diopside

Mammoth-St. Anthony mine,
Tiger, Pinal county

Owner: Tony Potucek



Arizona Mineral Treasures

Wulfenite

Mammoth-St. Anthony mine,
Tiger, Pinal county



Tiger, Ma

Pinal C



Arizona Mineral Treasures
Wulfenite
Mammoth-St. Anthony mine,
Tiger, Pinal county
Owner: Evan Jones



Arizona Mineral Treasures

Wulfenite

Mammoth-St. Anthony mine,
Tiger, Pinal county

Owner: University of Arizona
Mineral Museum



WULFENITE & MIMETITE ("hairs")
Lead Molybdate & Lead Arsenate Chloride

Tiger, Pinal Co., AZ



Wulfenite

*Mammoth-St. Anthony Mine
Tiger*

Pinal County

On Loan – Bill and Robbie McCarty

612



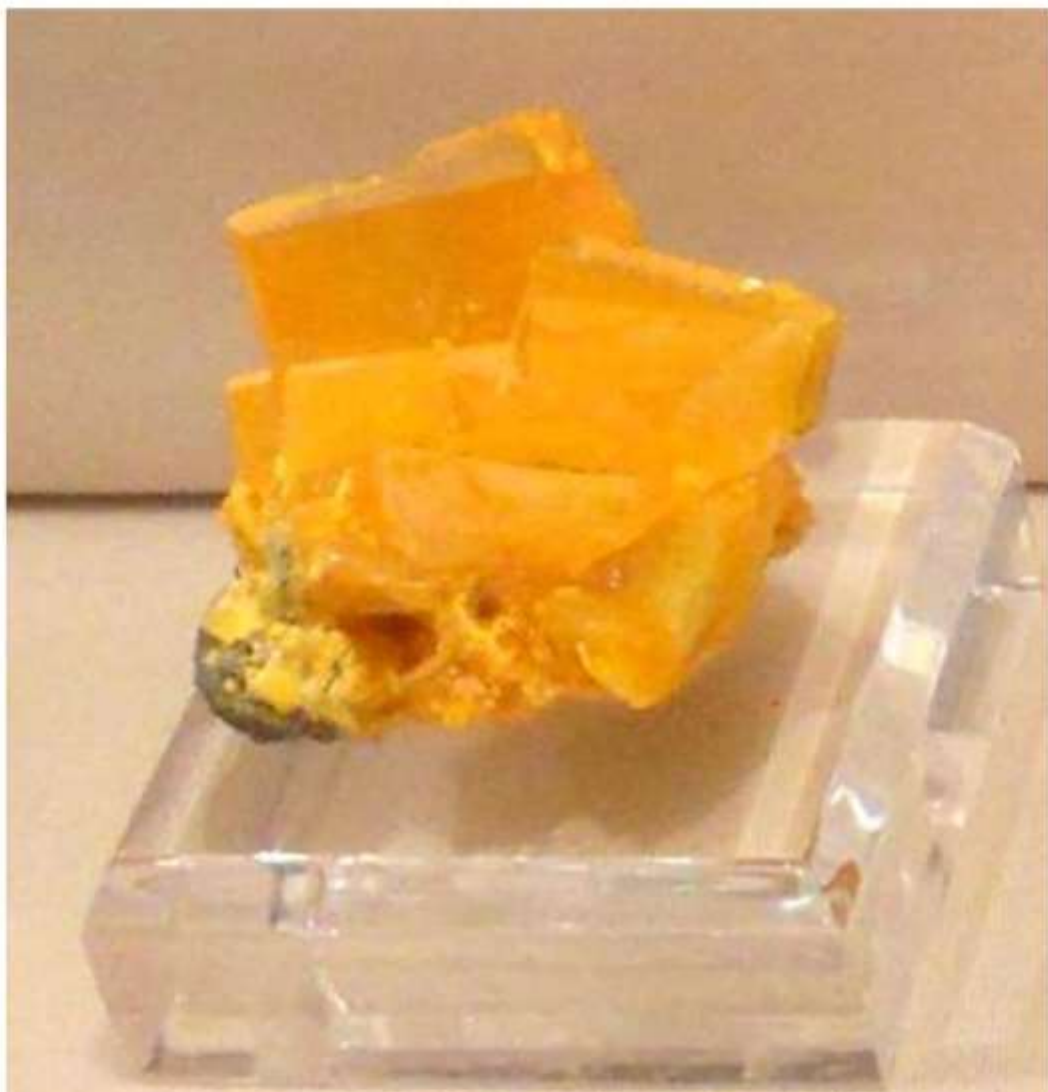
Arizona Mineral Treasure

Wulfenite

Mammoth-St. Anthony mine,

Tiger, Pinal county

Owner: Tony Potucek



Arizona Mineral Treasures
WULFENITE
TIGER, PINAL COUNTY,
OWNER: EVAN JONES



Arizona Mineral Treasur

Wulfenite

Mammoth-St. Anthony mine.

Tiger, Pinal county

Owner: Tony Potucek





Arizona Mineral Treasures
WULFENITE
TIGER, PINAL COUNTY,
OWNER: EVAN JONES



Arizona Mineral Treasures
Wulfenite
Mammoth-St. Anthony mine,
Tiger, Pinal county
Owner: University of Arizona
Mineral Museum



Arizona Mineral Treasures
Wulfenite
Mammoth-St. Anthony mine,
Tiger, Pinal county
Owner: University of Arizona



WULFENITE

Lead Molybdenum Oxide

**Shultz Cut, Circa 1880's
Tiger Mine, Pinal Co., AZ**

MM-T553





WULFENITE w/MIMETITE
Molybdate w/Lead Arsenate Chloride

Tiger Mine, Pinal Co., AZ

Donor: Leaverites



MQA – Rowley Mine

Photos by Jan Rasmussen

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Taken in 2010 at Arizona Mining & Mineral Museum
Or Taken in 2012 at TGMS Arizona Mineral Treasures



Arizona Mineral Treasures

CELEBRATING A CENTENNIAL OF STATEHOOD

Rowley Mine

The Rowley mine is famous for producing gorgeous combinations of bright yellow-orange "window pane" wulfenite and orange to red mimetite on white barite matrix. Their delicate beauty and contrasting colors have made them a favorite with many local collectors. The Rowley mine is located on the northwest side of the Painted Rock Mountains just west of Gila Bend. It is in an isolated area with very few other mines, which may be why it was not discovered until just over a 100 years ago, even though it is not far from the old Butterfield Stage route. The mine had a very short productive life, operating for only 14 years between 1909 and 1923. Like many of Arizona's small specimen-producing mines, it was the realization of the value of the mineral specimens themselves that actually extended the life of the property. Rediscovered by collectors after World War II, the mine has yielded almost a continuous flow of wulfenite specimens up to the present day. Significant pockets seem to be discovered about once every five to ten years. It is currently privately owned and is being operated commercially for mineral specimens.



WULFENITE & MIMETITE

ASDM #9796

**ON BARITE
ROWLEY MINE
THEBA. MARICOPA COUNTY
ARIZONA**



Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Les & Paul Presmyk



Arizona Mineral Resources

Wulfenite

Rowley Mine near Theta

Maricopa County

Owner: Paul Harber



Arizona Mineral Treasures

Wulfenite

Rowley Mine, near Theba

Maricopa County

Owner: Evan Jones



Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Evan Jones

Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Evan Jones

Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Evan Jones

Arizona Mineral Treasures
Vanadinite
Rowley Mine, near Theba
Maricopa County
Owner: Les & Paula Prosenick

Arizona Mineral Treasures
Wulfenite on Barite
Rowley Mine, near Theba
Maricopa County
Owner: Evan Jones

Arizona Mineral Treasures
Wulfenite on Barite
Rowley Mine, near Theba
Maricopa County
Owner: Les & Paula Prosenick

Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Evan Jones

Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Evan Jones

Arizona Mineral Treasures
Wulfenite with Mincite
Rowley Mine, near Theba
Maricopa County
Owner: Les & Paula Prosenick



Arizona Mineral Treasures
Vanadinite
Rowley Mine, near Theta
Maricopa County
© 2007 Jan & Paula Presnyk



Arizona Mineral Treasures
Wulfenite on Barite
Rowley Mine near Globe
Maricopa County
Owner: Barbara I. Mantyan



Arizona Mineral Treasures

Wulfenite

Rowley Mine, near Theba

Maricopa County

Owner: Evan Jones

Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones

Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones



Arizona Mineral Treasures
Wulfenite on Barite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones



Arizona Mineral Treasures
Wulfenite with Mimetite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones



Arizona Mineral Treasures
Vanadinite after Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones



Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones



Arizona Mineral Treasures
Wulfenite with Mimetite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones



Arizona Mineral Treasures
Vanadinite after Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Ivan Jones



Arizona Mineral Treasures
Wulfenite with Mimetite
Rowley Mine, near Theba
Maricopa County
Owner: Les & Paula Presmyk



Arizona Mineral Treasures

Wulfenite

Rowley Mine, near Theba
Maricopa County

Owner: Evan Jones



Tucson Mineral & Gem Society
Wulfenite on Barite
Keweenaw Mine, Iron Point
Marquette County
Michigan, U.S.A. & Paula Frederick



Arizona Mineral Treasures
Vanadinite after Wulfenite
Rowley Mine, near Theba
Maricopa County
Donor: Evan Jones



Arizona Mineral Treasures
Hornblende on Matrix
Rowley Mine, near Duda
Maricopa County
Owner: Les & Paula Presnyk



Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Duda
Maricopa County
Owner: Les & Paula Presnyk



Arizona Mineral Treasures
Wulfenite with Wollastonite
Rowley Mine, near Duda
Maricopa County
Owner: Les & Paula Presnyk



Arizona Mineral Treasures
Vanadinite after Wulfenite
Rowley Mine, near Duda
Maricopa County
Owner: Les & Paula Presnyk



Arizona Mineral Treasures
Wulfenite with Mimeticite
Rowley Mine, near Duda
Maricopa County
Owner: Les & Paula Presnyk



Arizona Mineral Treasures
Caledonite
Rowley Mine, near Duda
Maricopa County
Owner: Les & Paula Presnyk







Arizona Mineral Treasures

Wulfenite with Mimetite

Rowley Mine, near Theba

Maricopa County

Owner: Les & Paula Presmyk



Arizona Mineral Treasures

Mimette with Wulfenite

Rosley Mine near Hatcher

Maricopa County

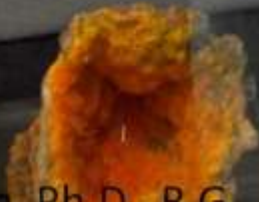
Owner: Les & Paula Presmyk



Bronze Mineral Extension
Vanadinite after Wulfenite
Bisbee Mine, with Matrix
Chiricahua County
Graham, Pinal Counties



Bronze Mineral Extension
Wulfenite
Bisbee Mine, with Matrix
Chiricahua County
Graham, Pinal Counties





Arizona Mineral Treasures

Wulfenite

Rowley Mine, near Theba
Maricopa County
Owner: Bob Kerr




Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Bob Kerr



Arizona Mineral Treasures
Vanadinite after Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Pete Knudson

The Rowley
 the Painted Rock
 in an isolated area
 the why it was not
 eggs, even though it is
 route. The mine had
 ing for only 14 years
 of Arizona's small
 the realization of the
 themselves that actually
 Rediscovered by collec-
 e has yielded almost a
 specimens up to the present
 to be discovered about once
 narily privately owned and
 ily for mineral specimens.



Minerals from the
Rowley Mine
 Painted Rock District
 Maricopa County



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Small white label with illegible text.



Small white label with illegible text.





Arizona Mineral Treasures
Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Evan Jones



Their delicate beauty and contrasting colors have made them a favorite with many local collectors. The Rowley mine is located on the northwest side of the Painted Rock Mountains just west of Gila Bend. It is in an isolated area with very few other mines, which may be why it was not discovered until just over a 100 years ago, even though it is not far from the old Butterfield Stage route. The mine had a very short productive life, operating for only 14 years between 1909 and 1923. Like many of Arizona's small specimen-producing mines, it was the realization of the value of the mineral specimens themselves that actually extended the life of the property. Rediscovered by collectors after World War II, the mine has yielded almost a continuous flow of well-kept specimens up to the present day. Significant pockets seem to be discovered about once every five to ten years. It is currently privately owned and is being operated commercially for mineral specimens.

Minerals from the
Rowley Mine
 Painted Rock District
 Maricopa County



Green Mineral Specimens
 Vanadinite
 Rowley Mine, near Gila Bend, Maricopa County, Arizona, USA

Green Mineral Specimens
 Vanadinite after Wulfenite
 Rowley Mine, near Gila Bend, Maricopa County, Arizona, USA



Green Mineral Specimens
 Wulfenite
 Rowley Mine, near Gila Bend, Maricopa County, Arizona, USA





Arizona Mineral Treasures

Vanadinite

Rowley Mine, near Theba

Maricopa County

Owner: Evan Jones

Arizona

Vanadinite

Rowley

M

O



Arizona Mineral Treasures
Vanadinite after Wulfenite
Rowley Mine, near Theba
Maricopa County
Owner: Bob Kerr



WULFENITE and
Lead Molybdenum
Lead Arsenic Oxide
Rowley Mine, Theba, Ma

ROWLEY MINE - MARICOPA COUNTY

Virtually unknown as a specimen locality until after WWII, the Rowley Mine has since produced many fine crystals. The bright yellow to orange tablets with beveled edges occur on barite, often with bright orange mimetite or replaced with greenish brown vanadinite. (At one point in its history, 30 TONS of crushed wulfenite was shipped from the Rowley Mine to the smelter.)

MM-S201 Donor: James Horner

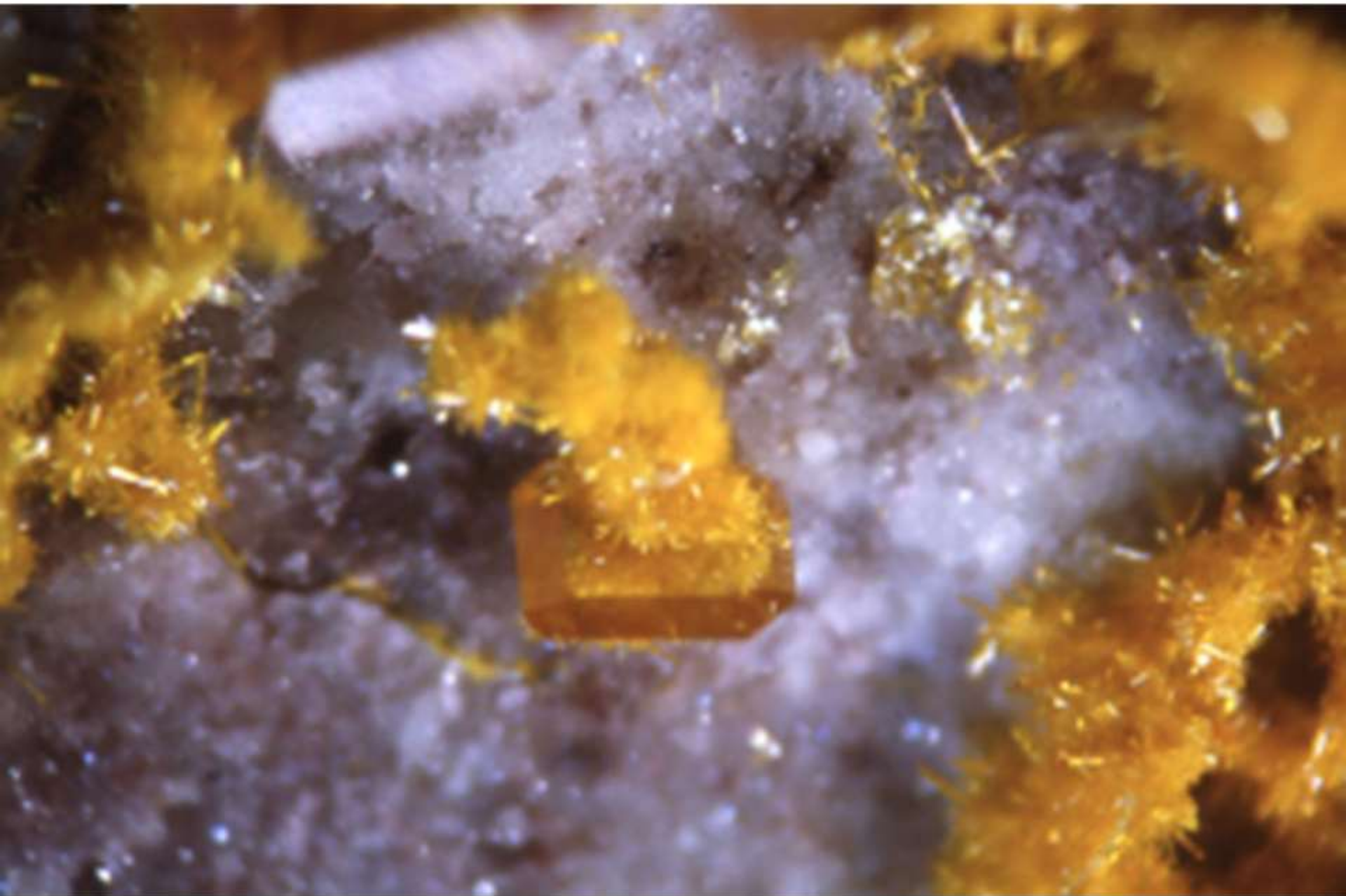
Tucson Gem & Mineral Society program



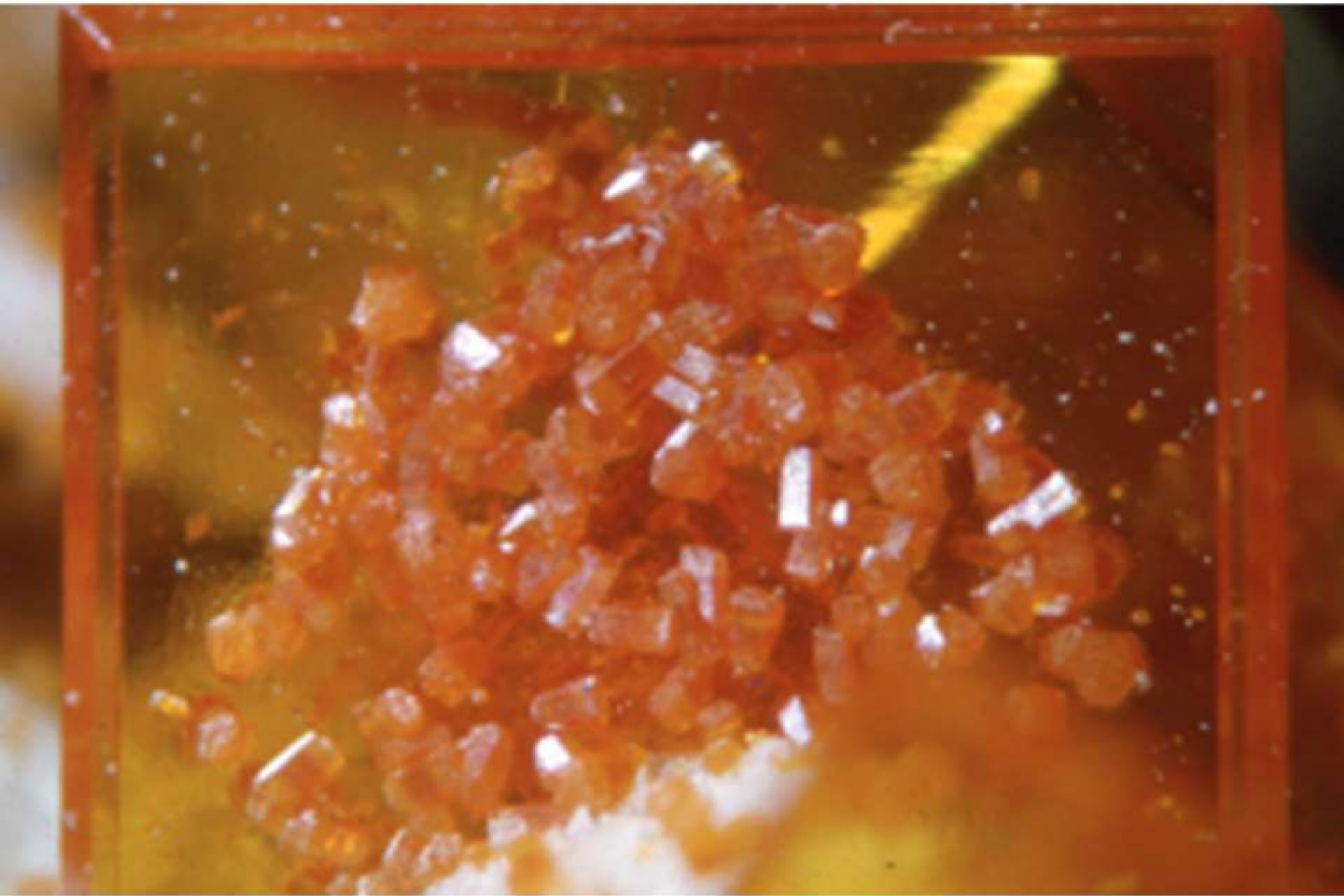
ROWLEY MINE - MARICOPA COUNTY

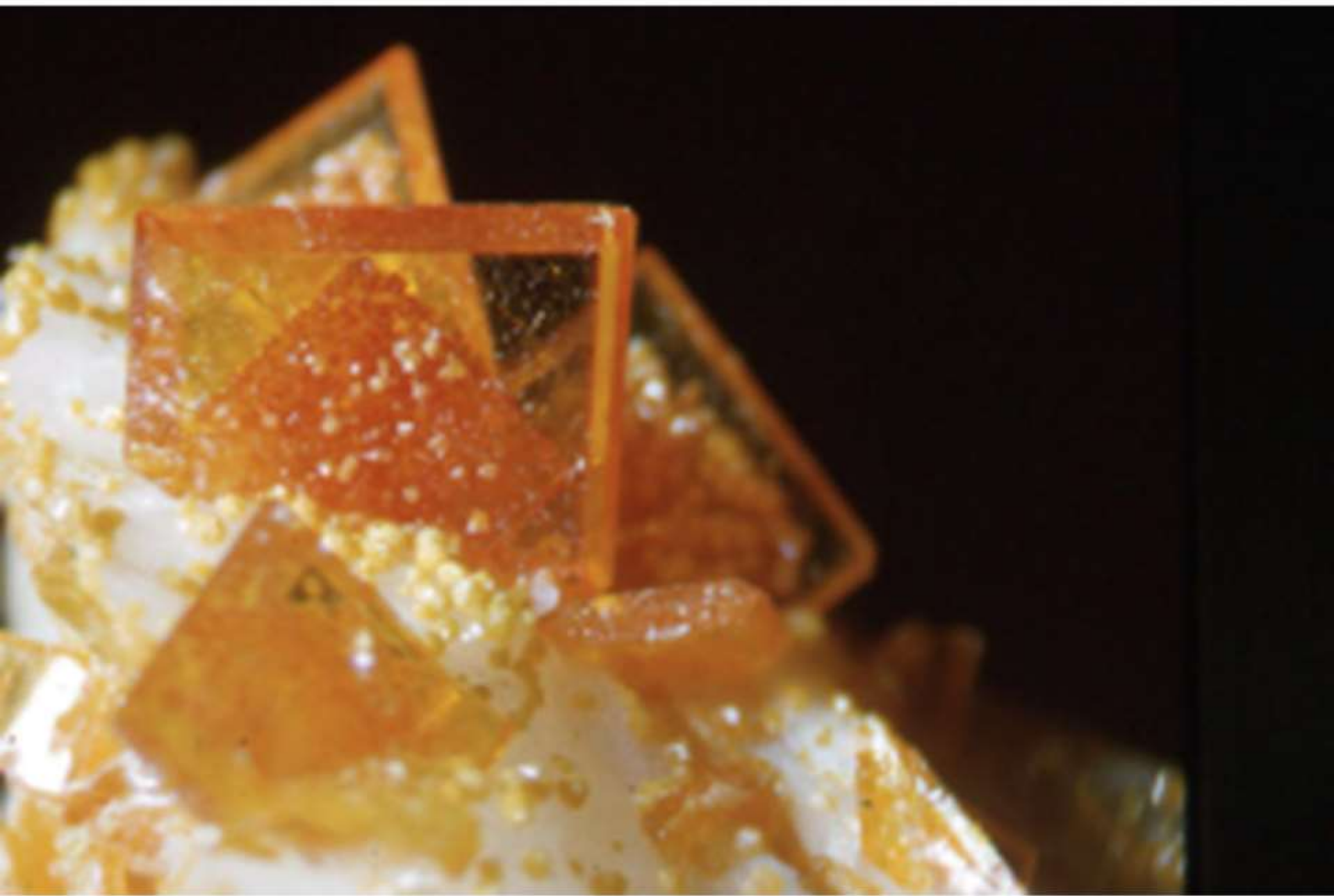
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Tucson Gem & Mineral Society program









WULFENITE
Lead Molybdate

Rowley Mine, Maricopa Co., AZ

Donors: Floyd & Alice Getsinger

MM-9981







3.5x5

5x7



WULFENITE and MIMETITE
Lead Molybdenum Oxide and
Lead Arsenic Oxide Chloride
Rowley Mine, Theba, Maricopa Co., AZ
MM-T570



Row



MCA – various mines

Photos by Jan Rasmussen

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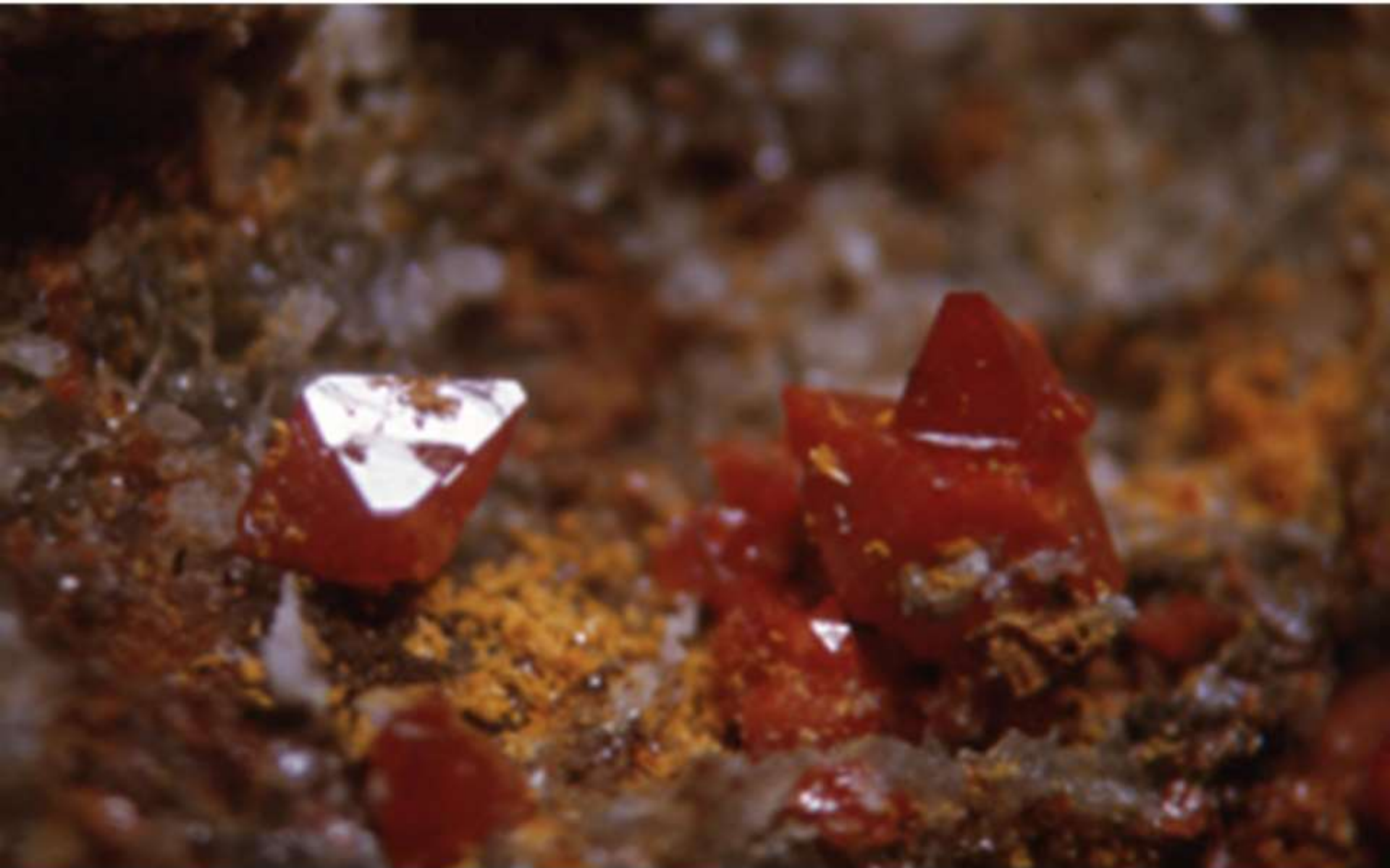
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MCA – Florence Lead-Silver Mine
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MCA – Florence Lead-Silver Mine



4-
Wulfenite
Gunsite Mine
Rosemont Dist.
Pima Co., AZ

B & B MINERALS

8145 N. Wanda Rd.
Tucson, Arizona 85704
(520) 297-8860



Wulfenite
Superior



Arizona Mineral Treasures
WULFENITE
TIGER, PINAL COUNTY,
DONOR: EVAN JONES

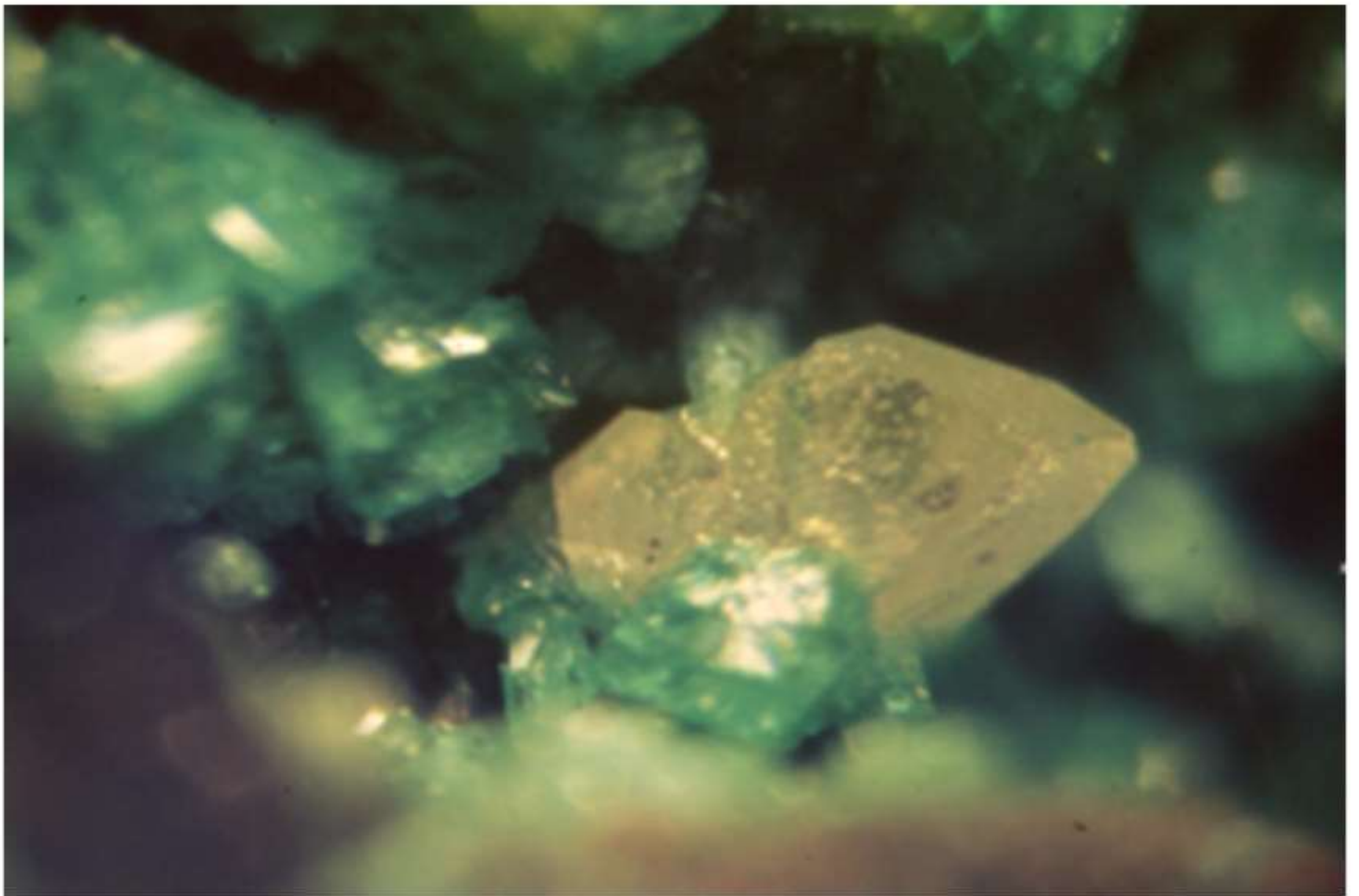


Arizona Mineral Treasures

Wulfenite

Mammoth-St. Anthony mine,
Tiger, Pinal county

Owner: University of Arizona
Mineral Museum



Wulfenite with tsumebite, Morenci, Thomssen collection photo by Richard Bideaux



Arizona Mineral Treasures
Wulfenite
Purple Passion Mine
Yavapai County
Owner: Bill Yedowitz



MQA - Wulfenite – Purple Passion Mine Wickenburg MM-P618