



**Denver Gem & Mineral Guild  
Founded March 1964**

1420 S. Reed Street  
Lakewood, Colorado, 80232

AFMS Silver Medal Club 2016



**President - George Daggett**  
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**Vice President - Sarah Reece**  
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**Secretary - Pro-tem**  
Marj Becker

**Treasurer - Debbie Baldwin**  
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**Hospitality - OPEN**

**Editor - Beth Simmons**  
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**Grab Bags - Joe Walkowich,**  
**Joe Payne, Kathy Honda**  
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**Field Trips - Committee**

**Show Chairman - Beth Simmons**  
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**Dealer Chairman**  
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**Membership - Merlin Schreffler,**  
**Sue Childs**  
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**Ways & Means - Dave Sanchez**  
**Gideon Breithaupt, Sandra Lucero**  
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**Web Master - Bob Johnson**  
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**Claims Manager - George Daggett**  
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## TIPS & CHIPS

[HTTP://WWW.DENVERGEMIT.ORG](http://www.denvergemit.org) OR  
[HTTP://DENVERGEMIT.ORG](http://denvergemit.org)  
AND NOW FACEBOOK!!!

**August 2020**

### JANE DIANICH'S DEATH See pages 4-6

### TOPAZ—Big and bigger!

DGMG diggers revel in discovering big crystals. And, here in Colorado, have the opportunity to find BIG gemstone crystals! These two topazes surfaced this past week!



**~200 carats!**

**Vivi Strand**

**Family Tarryall topaz claim**



**296 carats!**

**Linda Burns**

**Joe Dorris' Lost Gem Topaz Mine**

## CONGRATULATIONS!



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## 57 years of DGMG Kudos, Celebrations, & Events

### 2020 DGMG Officers & Chairmen

**President::** George Daggett  
**Vice President:** Sarah Reece  
**Secretary:** **OPEN PRO-TEM:** Marj Becker  
**Treasurer:** Deb Baldwin;  
**Treasurer Assists:** Beth Simmons  
**Hospitality:** **OPEN**  
**Ways & Means:**  
 Dave Sanchez, Gideon Breithaupt, Sandra Lucero  
**Membership:** Sue Childs; **Ass't.:** Merlin Schreffler  
**Claims Manager:** George Daggett **Ass't.:** Susanne Peach  
**Editor:** Beth Simmons; **Ass't.:** Marj Becker  
**Historian/Librarian:** Kathy Honda  
**Webmaster:** Bob Johnson  
**Show Chairman:** Beth Simmons  
**Dealer Chairman:** Linda Burns  
**Field Trips: Committee**  
**Grab Bags:** Joe Walkowich, Joe Payne, Kathy Honda  
**Merchandiser:** Sandra Lucero  
**Council Rep:** Kathy Honda; **Alt.:** Linda Burns  
**Denver Show Rep:** Kathy Honda  
**Sunshine:** Sandra Lucero  
**Party planning:** Deb Baldwin, Marj Becker  
**RMFMS Rep:** Kathy Honda  
**Outreach:** Susanne Peach; Bob Johnson  
**Inventory manager:** Linda Burns

An "Assistant" is the officer's backup in case of illness or other reason they can't do their job. Every officer needs an "Assistant"! Join up! Say YES when asked!

### August Birthdays:

Fred Ceconi  
 Rick Estes  
 Matt Gillham  
 Ron Gowins  
 Greg Harrison  
 Les Heater  
 Zoe Loos  
 Jennifer Lyons  
 Olivia Panciocco  
 Don Rinner  
 Marilyn Rockwell

### Kyrie and Thaddeus Walls

Jamie White  
 Tricia Zeyrek

### August Anniversaries:

The Gordons  
 The Johnsons  
 The Luchtenburgs  
 The Paynes



### August Sunshine Spotlight

CONTACT **SANDRA LUCERO** 303-726-3829  
[gardengal001\(@\)yahoo.com](mailto:gardengal001(@)yahoo.com)

TO  
 INFORM HER OF SUNSHINE REQUESTS

## HOPE EVERYONE IS WELL!



### MEMBERS ON THE MOVE!

**Merlin Schreffler**, membership committee, has moved to Missouri to be with Carrie, her daughter, husband and grandchildren. Our well wishes follow her on this major endeavor! She donated the family's collection of Denver Show Posters, the first from years ago.

**Tricia Zeyrek** and family have moved to Grand Junction. We know they will join the club there and find LOTS of rocks!

### Quote of the months:

## DON'T STAY HOME! GO PLAY WITH ROCKS!

### THE DENVER GEM AND MINERAL GUILD—57 Years old!



*Founded in 1964, the Denver Gem and Mineral Guild pursues exploration, experimentation, and education in the earth sciences; the discovery, development and preservation of minerals and mineral deposits; and the advancement, encouragement and utilization of the principles of art and craftsmanship as applied to gems and minerals.*

*The Guild meets on the second Friday of the month at 7:30 pm at Berthoud Hall on CSM Campus, except for June, July, August, and December. Picnics, field trips, and parties replace regular meetings those months.*

*Deadline for article submission for the Tips & Chips is the 20th of each month. Email photos and articles to editor Beth Simmons at [cloverknoll@comcast.net](mailto:cloverknoll@comcast.net). Exchange with other newsletters is invited, and reprinting of material from this newsletter with proper attribution is encouraged.*

# 2020 DGMG CALENDAR OF EVENTS

**A persistent page—watch monthly for additions! PUT THIS ON YOUR FRIDGE!!!**

## 2020 Calendars STILL FOR SALE!

**Only about 10 copies left!**

**\$10— stunningly beautiful!**

**Proceeds go to DGMG Scholarship Fund  
to CSM Geology Department**

**See article in this issue about the  
Dropbox instructions for submitting  
photos for the 2021 calendar.**

## 2021 DGMG Show Report

by **Beth Simmons**, Show Chairman

**As of August 1, no progress has been  
made on the show for next year. The world  
has enough problems at this time.**

## 2021 DGMG Calendar

The DGMG Calendar is yet another way that DGMG members can strut their (photographic) stuff! The sponsorships essentially pay the printing bill, so the proceeds from the sales go to the CSM Scholarship Fund.

And it's already that time of year again to submit your pictures for the 2021 DGMG Calendar!

This year, Caleb Smith (who does the amazing job of designing our annual calendar) has asked that we rename each photograph with the following format - "FirstNameLastName.PhotoTitle.filetype" i.e. "RobertJohnson. AmethystRose.jpg". That will assure that he can properly title and credit your photo in the calendar.

Please upload your pictures to the **2021 Calendar** Folder in DropBox. Invitations to that folder were emailed to all of last year's contributors on 4/25/2020. If you cannot find your invitation, or if you are a new contributor, please contact [MineralGuild@Gmail.com](mailto:MineralGuild@Gmail.com) to request access. If you do not receive a timely response to your request, or you need further assistance, please Call Bob Johnson 720-514-0266. When you open the folder, please create a new folder within it and give it your name, then upload your pictures to that folder.

We look forward to seeing **YOUR** amazing photos in next year's Calendar!

## CONTINUING EXCITEMENT?

## STAYED TUNED TO YOUR EMAIL

**TYPICALLY WE HAVE A FIELD TRIP IN AUGUST, BUT  
NOT THIS YEAR.**

**MEETINGS WILL PROBABLY BE HELD VIA WEB-EX.  
JOIN IN!**

## PRESIDENTIAL MESSAGE



Sometimes, people are more important than rocks and geology. The kindred spirit among our members is a joyful foundation that we all embrace.

And embrace is literally what Jane Dianich did with all of us.

My dad used to say that B.P.O.E. stood for "best people on earth." Well, we know Jane was a charter member of that order, and she always will be.

My heart breaks for Pete, another B.P.O.E., and one who has contributed so much to our communal friendship and our knowledge and understanding of our third rock from the sun. Pete and Jane always have been a fun and funny couple, as evidenced by the included photo from our Christmas Party in 2018.

Please accept this brief missive as everything I can conjure right now.

I join all of you in our sadness. Thanks.

**George**



## **Pete's Facebook announcement, Tuesday, July 28, 2020.**

My dear friends, I have some very sad news to share, and I know this will come as a great shock to many of you. We had a tragic accident this weekend, at our summer place in Delton, Michigan, and my wife, **Jane Alberta Dianich**, is dead, by drowning. It happened early Saturday evening, and we found her in the lake, next to our cottage. It happened when both I and Trevor were away from the property for a while, so we do not know what exactly happened. Whether she slipped and fell off our dock and hit her head on something, or had some kind of a seizure or heart attack or fainting spell, on the dock or swimming or wading in the water, we do not know. An autopsy is being done, and we hopefully will learn more.

I had returned home from a short errand, and found her floating in the water, unresponsive, next to our dock. I pulled her out and shouted to neighbors whom I could see to call 911 and for help. They ran right over, helped me get her up on to the shore, and we started CPR; one woman was a doctor, and she took charge. We continued CPR until police and EMT's arrived, then they took over, but there never was any pulse or response, and they ultimately had to give up. Jane's son, Trevor, was out paddling a kayak at the time, and he returned shortly too. Our thanks and gratitude go to all those good people, the neighbors and EMTs, who tried so hard to help, but we could not bring her back.

This has been such a shock to us, I hope you will all understand that I have not written yet to share this with everyone. So far we have just told family members and a few close friends about it. Jane's sister, Ruth Ann, who lives a little more than an hour away in Michigan, has been over to talk see us, and that has been a comfort. Trevor and I were both in Michigan, staying with Jane for just a 4-5 day visit, and we are glad that at least we were there together, and we able to be a great support for each other, with such a tragic event.

It happened when Jane was so very, very happy; being so joyful to have the cottage on a lake that she had always dreamed of, and having the three of us together to share it at least for several days this week. We had purchased the cottage back at the end of the summer in 2018, so we had been able to spend a few weeks there that year, most of the summer and early fall there for Jane last year (less time for me, limited by my annual leave). Jane had been there since the beginning of June this year, after we first spent two weeks together there in June, and I had returned to Denver until now. Once I actually start my retirement, which now, will not be for another month or so, we would have spent much more time there, together. Being there in Michigan, plus the love of us in her family and of her friends, was such a great joy to Jane.

Jane, a Michigan native, always felt she belonged there and felt complete when she could be there. As I said, to some day have a summer cottage on a lake in Michigan, as her family once did when she was growing up, had always been Jane's lifetime hope and dream. Our cottage, and the lake it was on, Pleasant Lake, were just "perfect" and made it a dream come true for her. Our neighbors there have been wonderful friends, too. At least we can know that she passed away very, very happy, in the place where she so much wanted to be. Jane was always a person who felt nothing but gratitude for the blessings and good things in life.

It has been a comfort that we had made plans several years ago for what was to be in the event of our deaths. Jane will be buried at her family's plot in Riverside Cemetery in Albion, Michigan, the town where she was born; beside the grave of her daughter, Tessa Dianich Toms, who died in childbirth, and by the memorial granite bench that Jane had made there to honor her parents and serve as her own memorial too. I know that Jane did not fear death, that she had faith that she would be reunited with her daughter in Heaven, was always grateful for the joyful life that she had, and felt comfort that she would one day rest in Michigan soil at the place where she was born and which she loved.

Jane was a person so very much filled with the joy of life, and love for everyone she knew, that I could never expect more of a person.

After being returned from the Gift of Life Michigan organ donation center in Ann Arbor, Jane will be brought to the J. Kevin Tidd funeral home in Albion. Our plans are only tentative at this time, but we plan to have, probably on Saturday, August 8, a viewing of Jane's body at the funeral home, followed by a short graveside service at Riverside Cemetery. Trevor and I have returned to Denver now, and we'll be going back at the end of next week for the service and burial. We will plan to have a memorial and celebration of life service for Jane sometime later, probably not until next year, perhaps not until the anniversary of her passing, here in Wheat Ridge, at our church, Wheat Ridge United Methodist Church, when hopefully more people can gather together. I will certainly let all of you know when this might be.

To Jane, to my sweet, beautiful, wonderful, loving, amazing wife Jane, rest in peace, in Michigan and in Heaven, and know how much you will always be loved and missed, by me, and by so very many people whose lives you touched. You always thought of everyone else first! I will always love you, Juanita.



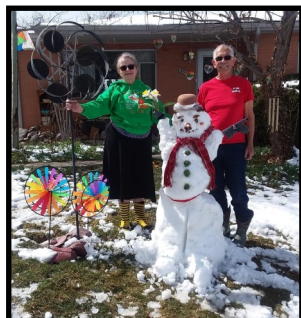
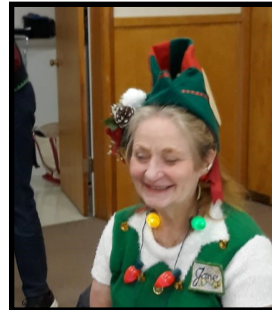


## GUILD LOSES VIVACIOUS MEMBER!

### JANE DIANICH DROWNS in her beloved Lake Pleasant!

On Saturday, July 25, **Pete** returned to the cottage and found **Jane** floating in the lake. He and the neighbors, one a doctor, pulled her out and called 911 and they tried unsuccessfully to revive her. Certainly this comes as an awful shock as she and Pete were to embark on their retirement together next month. Please send **Pete** your condolences at his email: [pmodreski@aol.com](mailto:pmodreski@aol.com) and at his address: 3555 Miller St. Wheat Ridge CO 80033.

These pages of photos by Marjie Payne, Pete, Beth Simmons, Bob Johnson (and others) commemorates just a tiny fraction of the wonderful times Jane had in the Guild and in life.





From **Karen Wenrich**:

**Pete** and I have been friends since 1969 when we all were at Penn State together. When he and **Regina** lived in Albuquerque, Earl and I used to come down probably about 5 times/year and they would come up here to Denver to visit us an equal amount of time. The last time I was at the balloon festival was when they still lived in Albuquerque. I know that **Pete** was never happier in his life than when he was with **Jane** and he shared the various pains with me as he went through the years. When he needed to move on from Sandia I helped him get his job at the USGS. So, we go back a long way. His posting was very touching and written in typical **Pete** style. It certainly brought tears to my eyes -- in fact, they are still there, so if there are any typos it's 'cause I can't see them. Every year at our TGMS party **Jane** always brought us a gift. Last year it was this funny rug that **Lenny** (and Nakita) just love. **Lenny** has a constant job of vacuuming up dog hair off of it since Nakita has taken over the rug. Like **Pete** said, **Jane** was always thinking of others. I couldn't believe how she would always find some cute gift that fit into our new house each year.

## What Is Love?

By **Marj Becker**

Love.

Is it a fancy

Or a feeling?

Can it be found

Embodied in

A living beauty?

Love

Is showing devotion

To God by singing

His praises.

Love

Is caring for the earth

And all things earthly.

Love

Is knowing about

The next generation,

Helping them learn about

Their precious earth.

Love

Love

Is taking advantage

Of the fun

Provided by God.

Love

Is sharing

One's love

With humanity

And choosing

To love

Pete.

Love

Is **Jane Dianich**

Her presence felt

Today.

Love Is **Jane**.



## Pictures from Field Trip to Lost Gem Topaz Mine June 27, 2020

Photos by Wendy Carley



**Left: Linda and Wendy with a great find!**

**Left and below: Raking gravel at the topaz mine**

**Middle: A handful of treasures!**

**Right: A gravel raker**

**Bottom middle: Another nice find.**

**Bottom right: Zach with his discovery!**





## DGMG DUES STILL BEING ACCEPTED

We can well understand if you haven't renewed your dues to the Denver Gem and Mineral Guild yet this year. So, for the first time ever, we are printing a reminder list, in alphabetical order by last name. And accepting dues long after the March 31st deadline. **UP TO AUGUST 15th.**

We need dues from Bourke, Max (Ruth); Brandon, Isabella; Brannan, Katherine; **Breithaupt, Gideon and Cindy**; Carter, Jacob Brantley and Christi; Christensen, Charley and Jushakne; Curtin, Seija; Dempsey, Michael; Forrest, Betsy; Garcia, Angela Green; Gilbert, Johnny and Moore, Michelle; Gillham, Matt and Dorsey, Caitlin; Gordon, Zane and Maria; Gowins, Ronald and Jennifer; Hardy, Ellen; Heater, Les and Pearl; Hunt, Erin; Kalicki, Shauna; Larsson, Linda; Lemmons, Clint; Loos, Zully and Preston; Luchtenburg, David; Lyons, Jennifer and Patrick; Marcoux, Alex and Preston; Marsh, Stephen; Martin, Michelle; Matsuo, Jeff Kim and Minah; Menchaca, Frank; Panciocco, Sue and John; Parks, Vicki; Patterson, Chuck, PhD; Rinner, Don and Joan; Sherman, Lindsey and Kyle; Simonds, Jim; Snow, Sarah and Fleetwood, Michael; **Strand, Tyler and Reece, Sarah**; VanCleave, Christopher; Veselinova, Iva; Webber, Kristie and Christopher; Wenrich, Karen, Dr. and Wildrick, Lenny; Whaley, Cass; White, Dan; Wittwer, Deb; Zellner, Dan; and Zeyrek, Tricia.

Please remit \$15 for individual, \$25 for family dues to:

Membership Chairman, DGMG Clubhouse, 1420 S. Reed St., Lakewood, CO 80232

FORMS ARE ATTACHED!

THANKS!!

**THE DEADLINE IS AUGUST 15th!**  
**THE ROSTER WILL BE PRINTED**  
**the middle of August.**

**If your dues aren't paid, even if you are an officer (in bold above), your name will be deleted from the roster!**

**Make sure you send a waiver for EACH person in your family group.**

**NO MORE TIPS & CHIPS!**

## DENVER GEM AND MINERAL GUILD MEMBERSHIP 2020

☐

Renewal

☐

New Membership

Annual Dues:

☐ Individual=\$15.00☐ Family=\$25.00 (Family is one or two adults, living at the address, and your children, under 18)Primary member \_\_\_\_\_ Birthday \_\_\_\_\_  
Name Month Year

Phone number \_\_\_\_\_ Email address \_\_\_\_\_

Spouse/Partner \_\_\_\_\_ Birthday \_\_\_\_\_  
Name Month Year

Phone number \_\_\_\_\_ Email address \_\_\_\_\_

Anniversary Month \_\_\_\_\_

Junior Member \_\_\_\_\_ Birthday \_\_\_\_\_  
Name Month YearJunior Member \_\_\_\_\_ Birthday \_\_\_\_\_  
Name Month YearJunior Member \_\_\_\_\_ Birthday \_\_\_\_\_  
Name Month Year

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

☐

Check this box if you DO NOT want your name, phone number and email address included in the Members Only section of the DGMG website.

## Interests and Skills (check all that apply)

- ☐ Fossils
- ☐ Lapidary
- ☐ Faceting
- ☐ Jewelry
- ☐ Have a collection
- ☐ Display at shows
- ☐ Attend mineral shows
- ☐ Willing to volunteer at shows
- ☐ Field trips

☐ Mineral collector: (list favorites)

\_\_\_\_\_

\_\_\_\_\_

☐ Willing to share special skills with others:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Return membership form, liability form for each person, and payment to Membership Chairman at a monthly meeting or mail to:

DGMG  
Membership Chairman  
1420 S. Reed Street  
Lakewood, CO 80232

## DENVER GEM AND MINERAL GUILD

### RELEASE OF LIABILITY

By signing below, I acknowledge that all activities sponsored or conducted by the Denver Gem and Mineral Guild (DGMG), a Colorado non-profit organization, may be hazardous and may result in loss, damage, or death.

With full knowledge of these dangers, and in consideration for my acceptance as a member of the DGMG and participant in any and all field trips and activities sponsored by the DGMG, and the services and amenities to be provided by the DGMG in connection therewith, I confirm that I have read the foregoing and voluntarily assume all risks of such damages and hazards occurring in connection with the activity. I hereby agree for myself, all my family, and heirs to RELEASE the DGMG and any of its trip leaders, club officers, club members, hosting property owners and claim owners, instructors, guides, or representatives from liability, claims, demands, or any causes of action.

I UNDERSTAND THAT THIS IS A LEGAL DOCUMENT AND BY SIGNING IT, I AM GIVING UP MY RIGHT TO SUE OR OTHERWISE MAKE ANY CLAIM against DGMG or any of its trip leaders, club officers, club members, hosting land owners and claim owners, instructors, guides, or representatives which may arise during my participation in any and all activities of the DGMG or activities I conduct as an individual on DGMG owned or leased properties.

I intend this RELEASE OF LIABILITY to be effective whether or not any loss, damage, injury, or death RESULTS FROM NEGLIGENCE of the DGMG or any of its trip leaders, club officers, club members, hosting land owners, and claim owners, instructors, guides or representatives. I understand that negligence means failure to do an act which a reasonably careful person would do, or the doing of an act which a reasonably careful person would not do, under the same or similar circumstances to protect himself, herself, or others from injury or death.

I agree to be solely responsible for my own safety and to take every precaution to provide for my own safety and wellbeing while participating in the activities of the DGMG. Also, I understand that on DGMG trips, there may not be rescue or medical facilities or expertise, which may be necessary to deal with potential injuries to which I may be exposed. I understand that these risks exist and notwithstanding them, I wish to participate in DGMG activities.

I HAVE READ THIS RELEASE AGREEMENT AND HAVE FULLY INFORMED MYSELF OF ITS CONTENTS BEFORE I HAVE SIGNED IT. ALSO, I PLEDGE TO UPHOLD THE CODE OF ETHICS ATTACHED TO THIS RELEASE.

Printed Name (Please print legibly): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

IF UNDER 18 YEARS OF AGE, PARENT OR GUARDIAN MUST READ AND SIGN BELOW

I am the legal guardian of the above minor and have read the above RELEASE. I hereby consent to the terms of the RELEASE on behalf of the named minor and give my consent to the participation of the above-named minor in all activities of the DGMG on the terms stated.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



## Thoughts While Watching TV At Midnight

By Marj Becker

I believe...

We're stronger together.

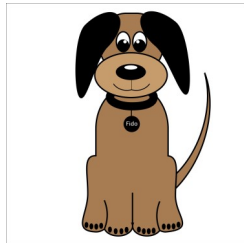
There's never been a better  
Time to find your community.

John Lewis was right when he said,  
"When you make mistakes, when you  
Are wrong, you should admit you're  
Wrong and ask people to forgive you."

It may be a good idea to set clocks  
A few minutes early; you'll get  
There on time!



Dogs should be in the yard  
On the furniture  
And in your lap.



Rocks are for collecting  
And washing  
And labeling  
And sharing.



Now, more than ever  
Community matters.  
We should give thanks  
For what we have  
And for what we don't have.

Christmas trees should be  
Green with electric lights  
And red and silver balls  
And home made ornaments.



The best times may be  
In front of us.

"Physical distancing" is a  
Better term than  
"Social distancing."

Angels walk on earth  
For our good.

Computers can be a  
Big help, but only  
If we are in charge.



ALL lives matter.

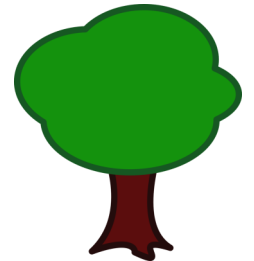
Twitter, Linkedin, Facebook, E-Mail.

We are all too connected.



The earth is worth saving.

Trees are for making shade  
And sleeping under and  
Jumping in piles of  
Their leaves.



There is strength in numbers.

Real books are better  
Than e-books.



Love beats hate everyday.

This too shall pass.

## AUGUST BIRTHSTONE—Peridot, Arizona's Green Gem By BOB JONES

### Arizona Highways, February 1975!!!

#### EDITOR'S NOTE:

*Peridot like gold and diamond is not worth much in the ground. Unlike gold and diamond it is not as simple to process, polish and drill. Because it has not been so precious and highly profitable, peridot has been one of the lesser known gem stones.*

*Today one man more than anyone we know is responsible for the phenomenal popularity of Arizona's world traveling green gem stone.*

*Elliott Glasser, internationally known mineral processor and gem dealer, has created an industry through the development of modern devices to tumble, polish and drill the delicate tumble bead. (Page 7) In drilled bead form and in the rough polished state, Arizona's peridot is used by the world's finest stone faceters and bead stringers.*

*Glasser's headquarters at 4234 Craftsmen's Court, Scottsdale is the hub of a new and growing international peridot industry. Because of the Glasser process and the market horizons which stretch around the globe, buyers come from foreign lands to seek the best of Arizona's green gem from the San Carlos Apache Indian Reservation.*

The treasures of the Southwest Desert have attracted mankind since the days of the Spanish Conquistadors and before. After more than four centuries people are still being attracted to the desert in search of mineral wealth and they are finding it.

Agate, jasper, chalcedony, fire agate, petrified wood, amethyst, turquoise, dumortierite, and peridot are just some of the gem materials found in the desert and elsewhere in the state.

Of these, one of the most valuable is the gem peridot. The name comes from the French, hence the last syllable is pronounced "doe." Peridot is formed in the fires of a volcano, making it almost unique in the gem world. The most famous gem, diamond, is also formed in the same type environment but has never been found in the peridot occurrences of the state since conditions for its formation differ somewhat from those required for peridot. At least one massive volcanic outcrop of peridotite, a rock composed mostly of peridot, has been identified between the border of Arizona and the San Juan River to the north but no diamonds have been found.

Peridot is a green gem, its color ranging from a bright yellow green to a deep lustrous green. Scientists say it is an idiochromatic, or self-coloring, gem since it has variations in the amount of iron and magnesium which create the subtle changes in hue.

There are only three major sources of supply for this beautiful gem, an island in the Red Sea, the gem gravels of Burma, and Arizona, with two good deposits. There are many other occurrences for peridot. It may be found as microscopic grains in any basic lava formation. However, for gem grade crystals to form the lava must experience a change in phase, becoming watery enough for the molecules of peridot to migrate toward each other to form grains sufficiently large to be of commercial value. The larger gems have come from foreign deposits but the bulk of the gem market today is being supplied from Arizona sources, primarily the lava formation known as Peridot Mesa on the San Carlos Indian Reservation. The second Arizona deposit is Peridot Ridge and is located north of Fort Defiance, near Canyon de Chelly. Scattered amounts can be found elsewhere, particularly where volcanoes have thrown

OPPOSITE PAGE — *Ultra-sonic drilling techniques have opened new markets for the attractive Arizona peridot beads . . . strung alone or with gold, silver, and other adornment.*

— MARKOW PHOTO

## PERIDOT Arizona's Green Gem

by  
Robert W. Jones

large masses of basaltic lava into the air to cool and harden before hitting the ground. These "bombs," as they are called, often contain gemmy grains of peridot, often too small to cut but beautiful nonetheless. As the forces of weathering work on basaltic lava containing grains of peridot, the grains are released and scattered along the washes and slopes where diligent collectors seek them out.

Peridot has been a popular gem throughout history. It was prized by the Egyptians who worked the Red Sea deposits. There is some evidence that the Breastplate of the high priest Aaron may have contained peridot as one of its twelve stones. The second stone was called, "Pjtdah," a green stone most think now was topaz while others still feel was peridot. These same twelve stones were later described as being embedded in the twelve foundation stones of Jerusalem. Named for the twelve apostles, these apocalyptic gems were credited with showing true spiritual preaching accompanied by miracles. Peridot was later endowed with the ability to ward off the thirst of fever when carried under the tongue and, when powdered, to be a remedy for asthma.

Though many people suffering from respiratory ailments come to the desert and seek its gems it is for the beauty of the stones not their mystical powers. There is still a trace of these ancient beliefs still reflected in our culture today as we prize peridot as the birthstone of August.

Currently, peridot is emerging as a marketable gem in Arizona. The current world's supply is limited with Arizona producing the greater amount of gem material for baroque jewelry. Large sized crystal grains suitable for large stones are rare in Arizona. The majority of what is found produces marvelously bright yellow green to green stones under five carats in weight. The National Gem Collection in the Smithsonian boasts a fine large Arizona gem weighing 22.9 carats.

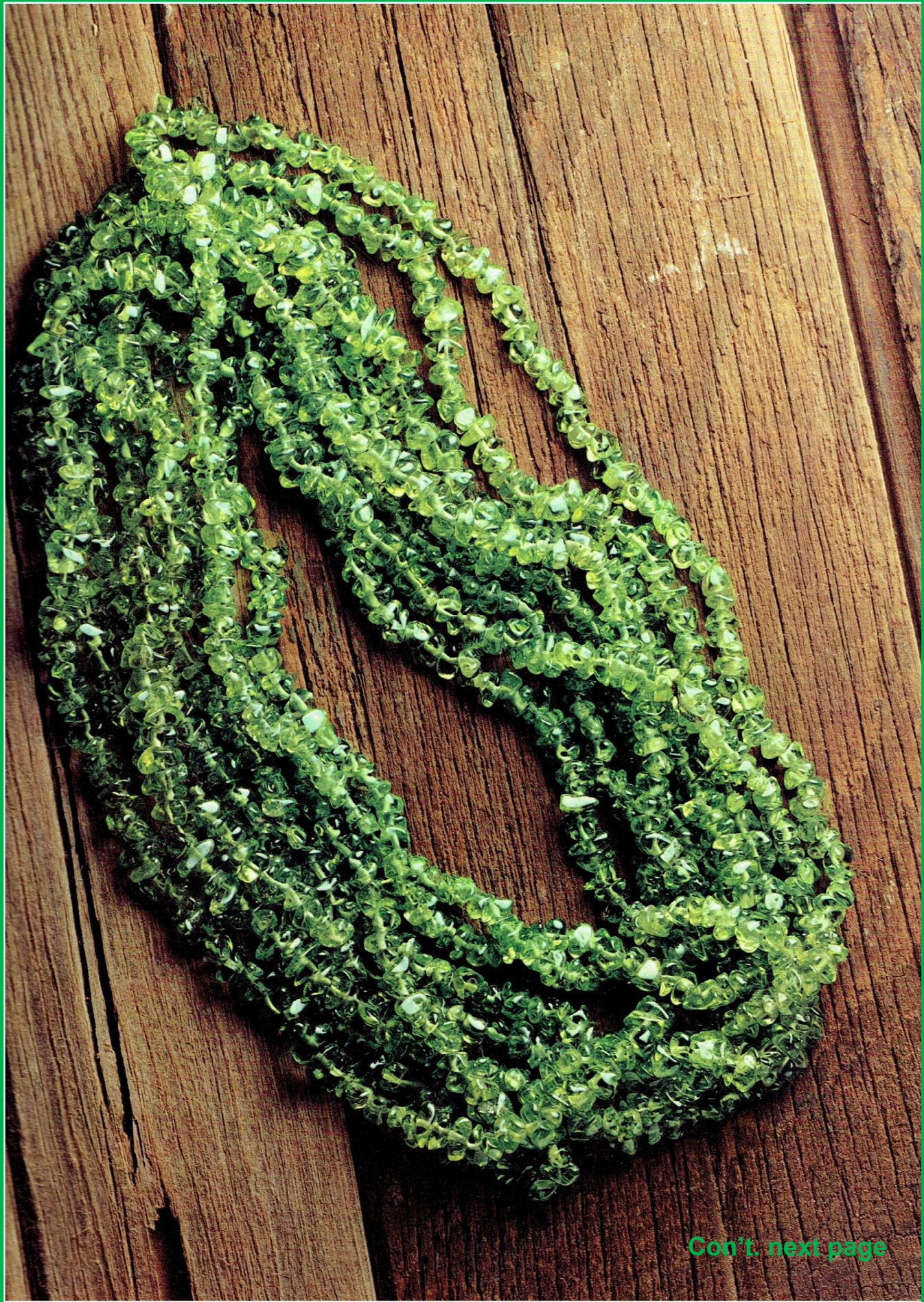
The significant increase in interest in Indian jewelry has provided an outlet for the gems being found on the San Carlos Reservation. Gem rough is collected by free-lance diggers, all Indians. This they sell off to two major markets. The Peridot Mining and Marketing Project, under the direction of Mr. Joseph Goombi, on the Reservation is one outlet. The other, off the Reservation processors who pick up the rough stones to polish, cut and drill for world-wide distribution. Since Hawaii is so well known as a volcanic region, peridot has long been prized there. The volcanics of the Islands, however, do not

*Text continued on page 11*

FOLLOWING PANEL pages 8-9

*Desert silhouette of Saguaro cacti and Montezuma's Head.  
Organ Pipe National Monument. — DAVID MUENCH*





Con't. next page



## PERIDOT from page 6

produce large grains of peridot in sufficient quantity to satisfy demands so quantities of Arizona material fill the bill. Known as "Pele's Tears" in Hawaii, Arizona peridot jewelry is readily available throughout the islands.

More interesting is the government sponsored self-help project now in its fourth year on the San Carlos Reseryation. Over thirty people, not including the free-lance diggers, are employed in the project. In that short time the program has become self-sustaining, wholesaling several thousand dollars worth of Indian jewelry of all types every month. The jewelry is made by apprentice craftsmen learning the trade under the direction of qualified staff. Output ranges from bolas, to rings,

bracelets, belt buckles, and almost any type jewelry normally made by Indian silversmiths. The peridot is tumble polished for some jewelry. The better gemstones are exported for faceting and mounting in fine settings. Since scientists have estimated that perhaps as much as one-third of the rock volume of peridot mesa is peridot, the mesa being some two miles long, it seems obvious there will be sufficient raw materials to maintain and even expand this interesting gem market.

Peridot has been prized by the Indians for years. As they work to develop their project, the ancient gem of the Bible, whose soft velvet green loveliness is unmatched, should become more and more fashionable. Arizona peridot may not cure asthma as the Ancients believed but the search for it will be beneficial and the pleasure of obtaining an Arizona native gem will be unique! □ □ □



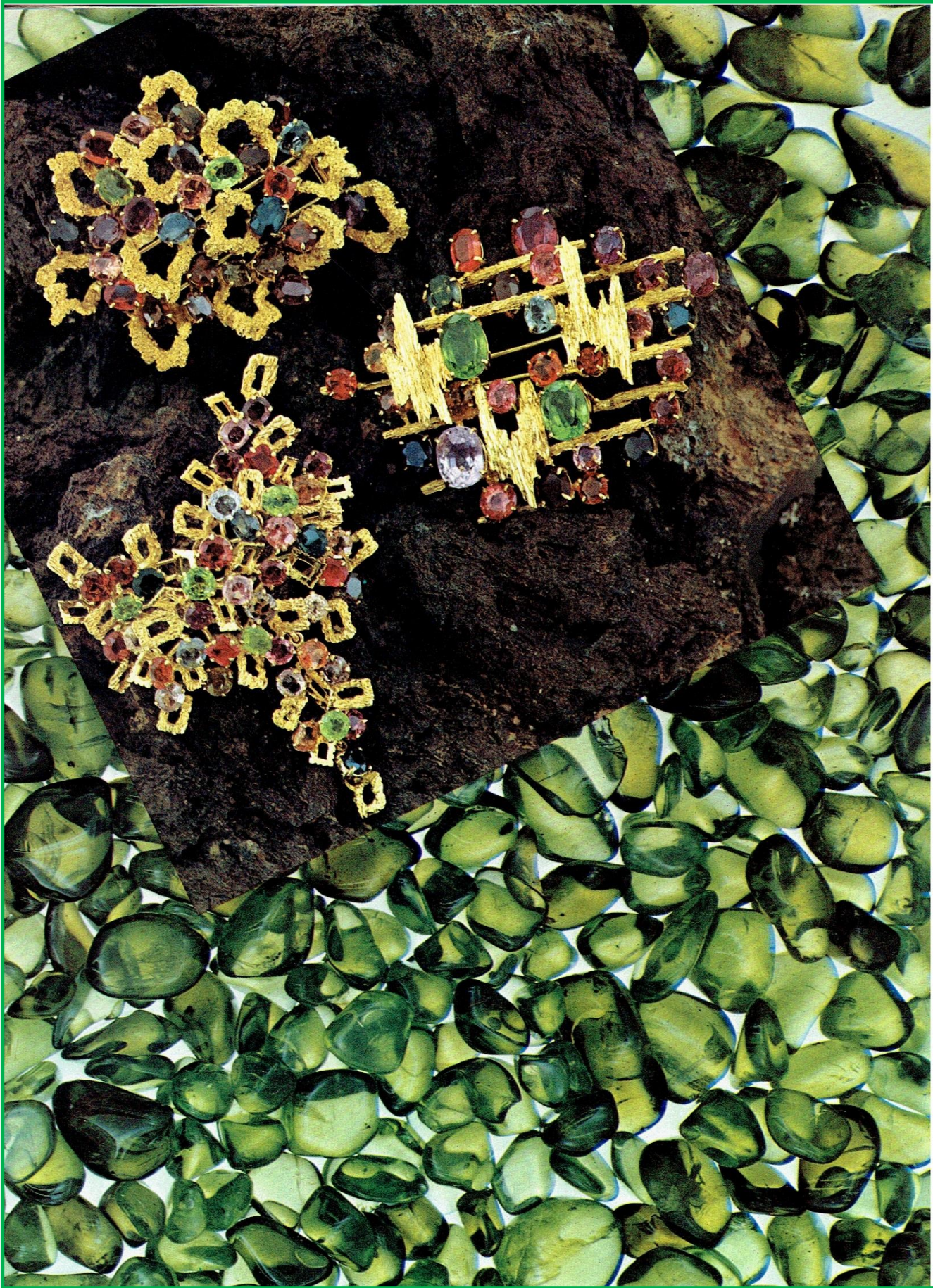
◀ LEFT — Rough tumbled peridot by the hundreds. INSERT — Peridot and other precious gem stones in designers gold settings. Courtesy Fifth Avenue Gallery, Scottsdale.

— NEIL KOPPE

ABOVE — Apache women building a wickiup at Peridot, Arizona, on the San Carlos Reservation.

— WESTERN WAYS PHOTO









## SPOTLIGHT ON AUGUST'S SPONSOR:

### Greater Denver Gem and Mineral Show 2020

The event that couldn't happen!

**UNLIKE YEARS PAST!** Merlin Schreffler, in her moving, found the family's collection of framed show posters from the first Denver area shows, including the DGMG's first show at Villa Italia.

Bob Johnson photographed them for the historic record and the webpages.



Left; 1968, June 15-16:

First Colorado Federation Show

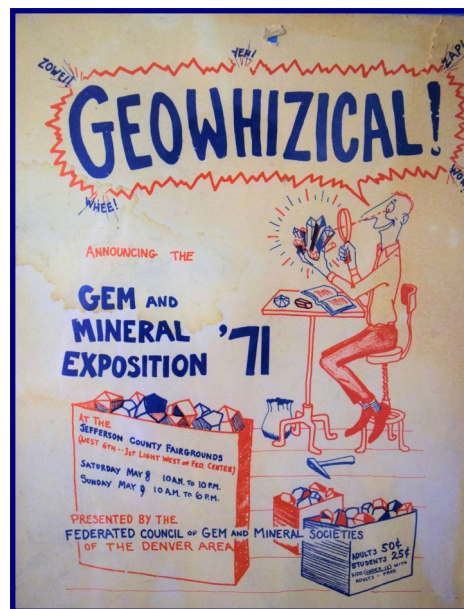
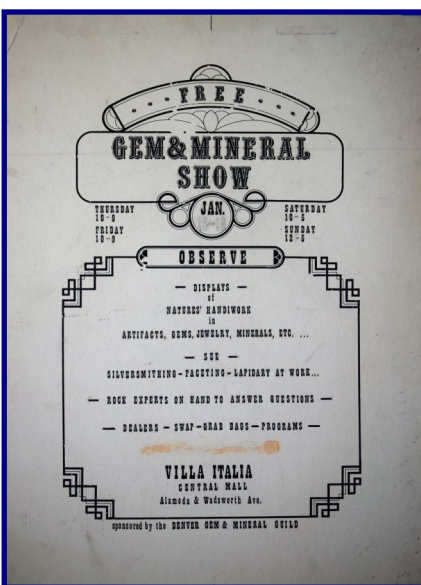
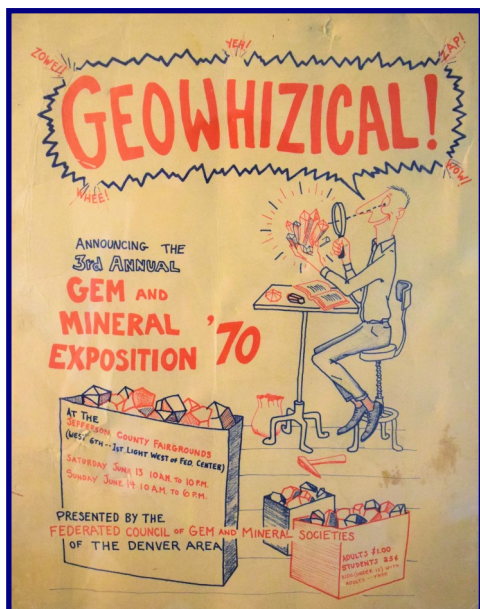
Right: 1966, August 13-14: Show poster for Colorado Mineral Society's 6th annual show

Lower Left: 1970, June 13-14: 3rd Federation show—JeffCO Fairgrounds

Center: DGMG Villa Italia Show poster master: Show held in January, with dates left blank so the master could be used over and over

Lower Right: 1971, May 8-9: 4th Federation show—JeffCo Fairgrounds

Thanks, **Merlin**, for this donation—who will be in charge of storing these?







## Web Corner – Web and Computer Resources for Rockhounds

### Help with Fossil Identification– by Bob Johnson

Mineral identification can be complicated enough with 5,606 named species (so far), but Fossil identification can be even more complicated with over 250,000 species that have been described - and those are still only a small portion of all the species that have ever lived.

To make the task more manageable you will want to narrow down your choices by knowing the specific geographic locality, geologic formation, or taxonomic level (kingdom, phylum, class, order, family, genus, etc.)

Fortunately, we now have several sources for help online. Here are just a few.

**Fossil Facts and Finds** [https://www.fossils-facts-and-finds.com/fossil\\_identification.html](https://www.fossils-facts-and-finds.com/fossil_identification.html) - created by two teachers from California, this site offers some basic information about fossils along with a form to submit your fossil id questions.

**Paleontological Society** <https://www.paleosoc.org/ask-a-paleontologist-question-and-answer/ask-a-paleontologist/> - is an international nonprofit organization devoted to the advancement of the science of paleontology. The site includes a form to submit your fossilID questions.

**Facebook Groups** – there are several Facebook groups where you can ask your fossil questions.

**The Fossil Forum** 30,230 members, 1000 posts/mo. Join to post/comment. The largest and fastest growing online paleontology community, has a gallery with over 27,000 images of fossils contributed by members to help teach others and assist in identifications. Features people of all experience levels from beginners to professional paleontologists. <https://www.facebook.com/groups/TheFossilForum>

**Fossil Identification and Discussion** 875 members, 100 posts/mo. Join to view/post/comment. This group is primarily for the identification and discussion of fossils. This isn't a sale group but sale posts are allowed. <https://www.facebook.com/groups/269628053908660/>

**Trilobites** 9,102 members, 300 posts/mo. Join to post/comment. This group is a place to share information, questions, photos, of trilobites, also specimens for trade or sale, or just in your collection that you wish to share. <https://www.facebook.com/groups/Trilobite1/>

**Fossil Hunters** 4207 members, 325 posts/mo. Join to Post/Comment. share photos of your field trips, lovely specimens, requests for fossil ID's, tips and stories. <https://www.facebook.com/groups/2355589121/>

**Reddit** – there are several subreddits dedicated to fossils including:

**r/fossils** - <https://www.reddit.com/r/fossils/> - created in 2010 this group has 5,400 members. Most posts are by people sharing pictures of their fossils, asking for help with identifying their fossils, and sharing information on where to collect fossils.

**r/FossilHunting** - <https://www.reddit.com/r/FossilHunting/> - created in 2012, this group has 7,000 members. This community is for sharing pictures and information about fossils and discussing the hobby. They ask that all requests for identification include a high quality, well lit image, the most accurate possible location information and some sort of scale (ruler, etc.).

**r/FossilID** - <https://www.reddit.com/r/fossilid/> - created in 2010, this group has 42,800 members and is for the paleontology lover that needs help with identification. In addition to asking for location, and a quality image with some sort of scale, they also suggest taking pictures from more than one angle and try wetting the fossil which can bring out more details.

**Dealers-** don't forget about fossil dealers. Their online shops host some beautiful fossil galleries which typically give not only the fossil name and location, but also prices so that you may gain an idea of what your fossil may be worth. Here are some of the nicer ones to check out when you are in the mood for some eye candy.

<https://www.fossilera.com/fossils-for-sale>

<https://www.fossilageminerals.com/collections/fossils>

<https://www.stonesbones.com/>

<https://www.fossilicious.com/fossils/>

<https://www.fossilrealm.com/collections/fossils>

Here in Colorado we don't have to go far to see all sorts of geologic wonders. And now with the internet we don't have to travel far to find help with interpreting them!

Fieldtrip to examine the petrified forest in Lakewood CO. But what kind of wood is it?





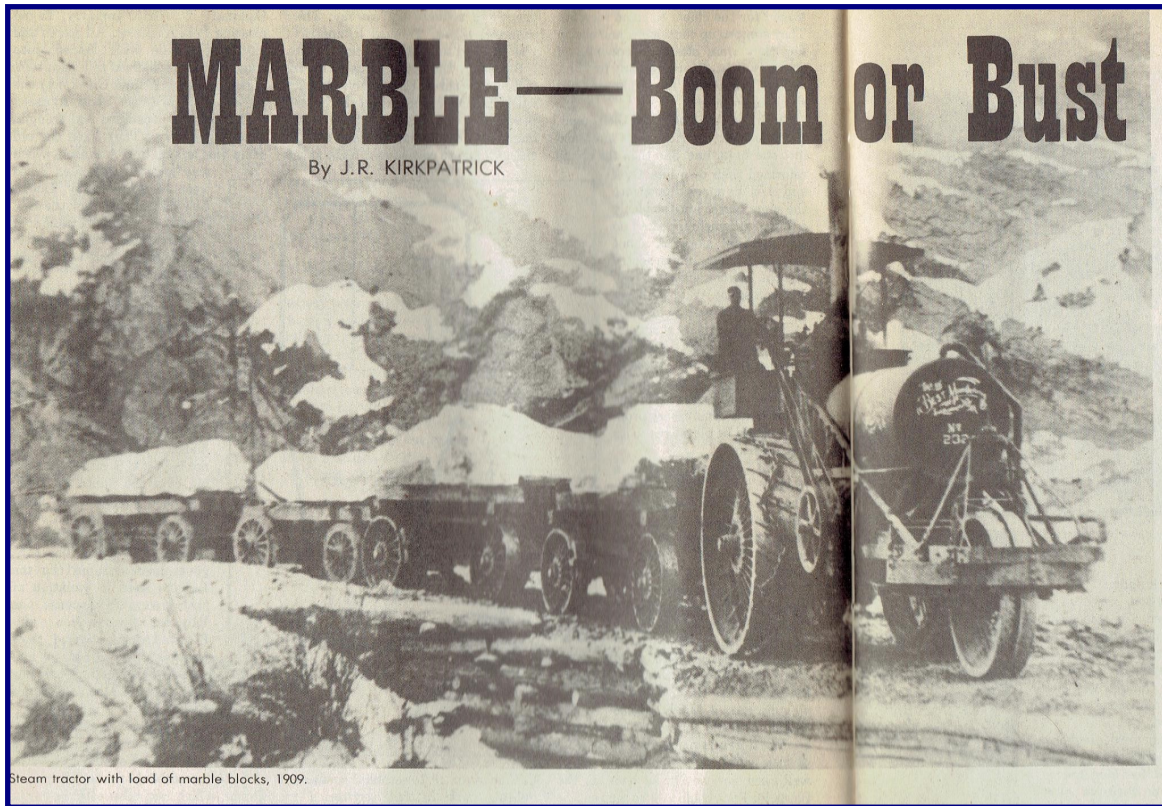
Fieldtrip to see the fossil clam beds in Lakewood CO. But what kind of clams are they?





## MARBLE— Boom or Bust by J.R. Kirkpatrick

This article appeared in True West magazine, September 1988, p. 24-29



Founded in 1881, Marble, Colorado, was not a typical western frontier town. No wild-eyed gunslingers stalked its streets, nor did fancy ladies cavort in sleazy dance halls. In fact, Marble votes itself dry in 1907, and the towns' three saloons closed. Needless to say, bootlegging flourish-but more on that later.

In the rugged Elk Mountains of Gunnison County's northwest corner, the beautiful Crystal River Valley (until 1886, called Rock Creek) was prime hunting grounds for the Utes. By treaty this was part of the Indian reservation, and white men were not welcome. More than one trespassing prospector was set afoot miles from civilization, his pack animals taken and his supplies burned.

Ute Chief Ouray made an exception for Dr. F.V. Hayden. As a surveyor and geologist for the federal government, Hayden led a party that mapped Colorado Territory, traversing much of the Crystal River Valley in 1873-74. In '873, too, another survey party headed by Dr. John Parsons of Denver undertook the climb over boulder-strewn Elk Mountain Divide. Enlisting forty Crested Butte area prospectors, the men hacked a road over the 10,707-foot pass to the source of the Crystal River.

When the survey was complete, one of the geologists—Sylvester Richardson, later founder of Gunnison—explored more thoroughly. Near the site of present-day Marble, a few miles up what is now known as Yule Creek, he saw a huge dome of pure white marble. Richardson predicted "the average citizen of Gunnison [County] may yet dwell in a marble hall... at a trifling cost."

Richardson was right about the future of the industry, but the price of the finished product was never "trifling." Nor could he foresee that the Ute reservation would be opened to white settlement after the massacre of Indian Agent Nathan Meeker and his staff in 1879. Two years later, with the Ute tribes banished to Utah Territory, eager prospectors rushed into the Crystal River Valley. Even those who chanced to notice the beautiful white stone pushed on, single-mindedly searching for gold or silver ore.





## Marble-Boom or Bust (con't.)

Good silver veins were discovered along the upper reaches of the Crystal and three mining camps flourished for awhile— Schofield, Elko, and Crystal. In the little valley where Carbonate Creek joins the Crystal River, a trio of miners laid out the townsite of Clarence in 1881, hoping footloose prospectors would winter there. By coincidence, William Woods and William Perry platted Marble just to the west for the same reason.

Little by little, interest in Yule Creek quarries was growing. By 1886, four claims had been filed, and blasting had begun on the 200-foot face of the cliffs. But lack of financing and transportation prevented an industry boom. Claims changed hands when money ran out, and the cycle was repeated for almost a decade. Finally, in 1895, a long hope-for announcement was made— Yule marble would be used for floors and stairs in construction of the Colorado State Capitol building.

Now there was activity. After the trail from Marble to the quarries was widened, blocks of white stone were sledded down the switch-backed, sharp-sloped 3.5 miles to town. From there, on a new wagon road, the sleds traveled thirty miles to Carbondale over the November snow. A station on the Denver & Rio Grande Railroad's Glenwood Springs-to-Aspen branch line, Carbondale shipped the marble to Denver. At last a door was opening for Marble.

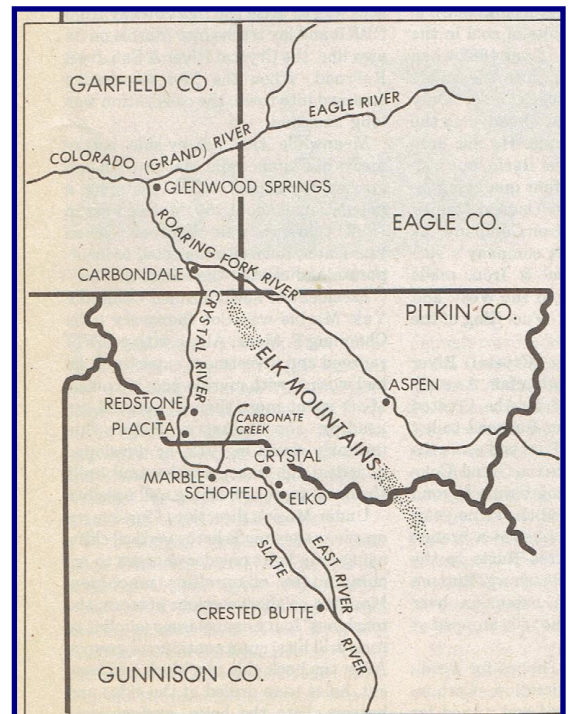
Besides precious metals and marble, there were vast deposits of coal in the Crystal River Valley. It was 1882 when John C. Osgood came into the valley searching for the black gold. Only thirty-one years old, he already had the beginnings of a fortune. He not only filed claims in rich Coal Basin, but also helped finance the infant quarrying industry in 1886. Later Osgood formed the Colorado Coal & Iron Company, made Pueblo the Pittsburg of the West, and John Osgood became "Fuel King of the West."

Railroads into the Crystal River Valley were a patchwork affair. As early as 1881, plans called for the Crested Butte & Grande River Railroad to lay tracks over Schofield Pass and serve the valley, then continue to the Grand (Colorado) River. Never progressing beyond paper, the scheme died the same year. In 1887, the D&RG (Denver & Rio Grande) pushed a branch line north from Crested Butte to the coal-mining camp of Pittsburg. Rumors flew, forecasting an extension over Schofield Pass. But the rails stopped in Pittsburg.

Beginning in 1886, hopes for a railroad from the other direction— Carbondale—to Marble waxed and waned for twenty years. Interrupted by the Silver Panic of 1893, John Osgood's Crystal River Railroad, taking over two bankrupt lines, reached Redstone in 1899. From there a branch climbed into the Coal Basin bonanza. Redstone was a model village for the miners and their families, its well-built houses having electricity, running water, and bathrooms. A short distance south of Redstone, John Osgood and his second wife, Alma, created Castle Cleveholm, \$3,000,000 worth of fabulous history.

End-of-line for the Crystal River Railroad was Placita, a coal mine and fueling tipple four miles south of Redstone and seven miles from Marble. But the last gap was closed in 1908, a year after Colorado-Yule Marble Company incorporated in New York at \$2,500,000. One of the company's first acts was to lease the right-of-way from CRRR and lay tracks into Marble on its own line, the Crystal River & San Juan Railroad. When the first locomotive steamed into town, the celebration was long and loud.

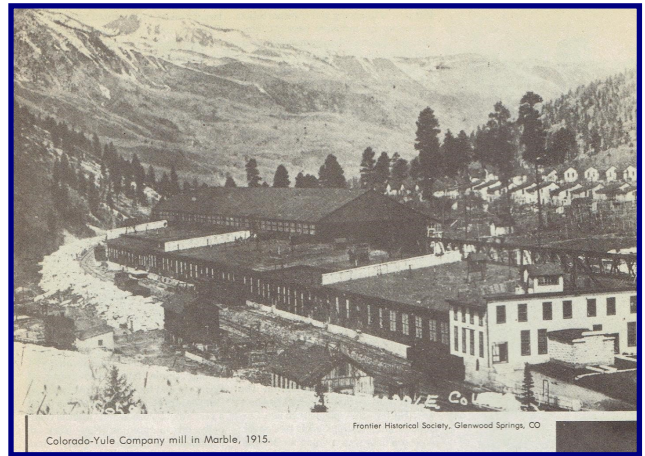
Meanwhile the side-by-side settlements of Clarence and Marble each had applied for a post office. Claiming a population of about 150, Marble won, in 18892, Clarence was absorbed. Seven years later, town citizens voted to incorporate and elected their first mayor.



## MARBLE - Boom or Bust (Con't.)

President of newly-formed Colorado-Yule Marble was Col. (honorary title) Channing F. Meek. Along with years of railroad and investment experience, he had worked with marble, too. No piker, Meek spent more than \$3,000,000 upgrading the industry. Before his untimely death in 1912, he developed quarries and transportation and built the finest marble-finishing mill possible.

Under Meek's direction, four quarry openings were made in the vertical cliffs, using only light powder charges to accommodate channeling machines. Mounted on short sections of track, the machines' four channel irons (similar to rock drill bits) cut a continuous groove. After the back side of a block had been cut, holes were drilled at the sides and bottom. Into the holes, wedges were tapped until the rock split.



Colorado-Yule Company mill in Marble, 1915.

Frontier Historical Society, Glenwood Springs, CO

A monstrous fifty-ton, seventy-five-foot derrick lowered the blocks to wagons—or sleds—depending on the season—on the quarry road. Six horse-teams hauled the marble to the railroad for shipment. After the mill was completed in mid-1907, the stone was finished, then freighted.

Even though no major order had been received, work went on steadily during the year. The mills, 228 feet long, housed gang saws, lathes, and abrasive equipment, all driven by electricity from a new power plant. Finally, in October 1907, the first large contract was landed—Yule marble for the Cuyahoga County courthouse in Cleveland, Ohio.

Now orders came from all across the country. The mill was lengthened to 709 feet. Horses were replaced by an enormous, three-wheeled stream tractor capable of pulling four steel-wheeled wagons. The work force grew to 350. To accommodate the new workers, Colorado-Yule built fifty four-room houses, furnished them, and charged four dollars monthly rent.

Quarry Town, a rude collection of bunkhouse and shanties, was thrown together above and west of the workings. Housing mostly single men, its location made getting to work merely a matter of shinnying down a long ladder. At 9,000 feet, thought, winter snows were heavy, and sometimes workers had to tunnel into their shacks.

Marble's 1908 dry law was easy to get around. It was illegal to sell or give away liquor, yet a man could buy a bottle for himself. Carbondale wholesalers did a tremendous business, and bootlegging became a way of life. Too, much of the work force was made up of experienced marble craftsmen from Italy, whose thirst for wine was easily quenched by distilling the abundant wild grapes and service berries.

Two other marble companies tried for a share of the booming business in 1909, taking over defunct quarries. But neither had the necessary capital, and both soon folded. A more serious problem for Colorado-Yule cropped up—a strike by 500 of the workers, demanding extra pay for longer hours. Despite ten percent higher wages than other U.S. quarries paid, the men held out for three months. Then they returned to work—with a pay cut.

Nineteen ten was the best year yet. With new contracts rolling in, the population of Marble swelled to nearly 2,000. When the Coal Basin mines closed, Colorado-Yule promptly leased the Crystal River Railroad, running both lines over 29.4 miles of track from Marble to Carbondale. The mill was enlarged again, making it the largest in the world—1,465 by 80 feet. An electric tramway replaced the ponderous three-wheeled tractor. With a maximum of seventeen percent grade and the sharp curves of the route, the electric cars were faster and more efficient. But they were dangerous, too—runaway trams were a common occurrence when the brakes overheated. Brakemen soon learned when to jump, but a number of passengers were killed.





## MARBLE—Boom or Bust (con't.)

Booze remained available. Marble's sheriff had a puzzling problem—many of his prisoners, sober at night, were dead-drunk in the morning. It took a while, but the lawman finally solved the riddle. Friends of the prisoners sneaked up to the mesh screens covering the windows and pushed through a length of macaroni. With that as a straw, a jailed man could drink deeply from a buddy's bottle.

Snowslides rumbled down the steep sides of the valley, giving no warning. Returning to Quarry Town for lunch on a March day in 1912, timekeeper David Davis was swept to his death. Six months later, Colonel Meek was riding a train car down when the brakes failed. As the car picked up speed to an estimated sixty miles an hour, everyone aboard jumped. The four workers survived but Channing Meeks suffered fatal injuries.

Lacking Meek's leadership, the company faltered. Orders for marble still came in, but Colorado-Yule was deeply in debt for earlier improvements. Salvation came in the form of the largest order ever received—stone of the Lincoln Memorial in Washington, D. C. The contract, awarded in 1914, took more than two years to complete. Forty trains of fifteen cars each hauled the finished marble to the capitol.

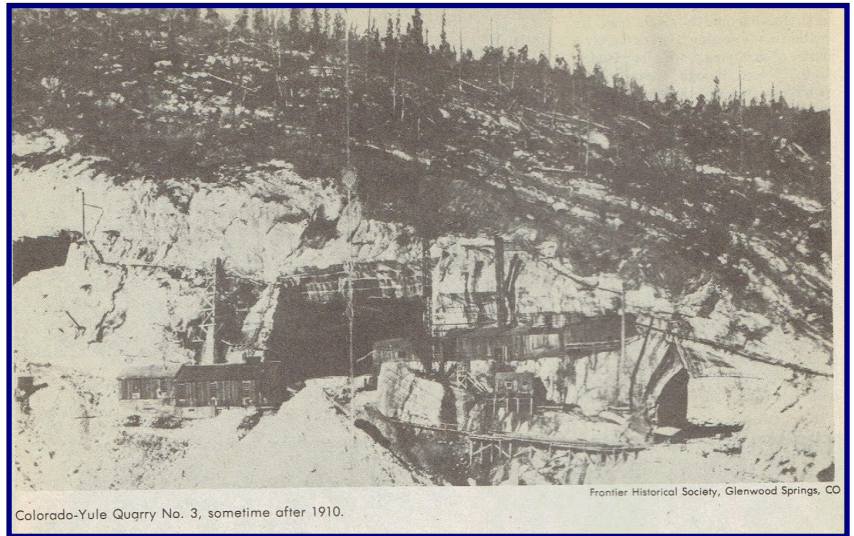
"Black Bull," a rotary snowplow with blades on each end, was put in use in 1915. Run up to the quarries in autumn, it used gravity to help combat continual snowslides plaguing the tracks down to Marble. But Black Bull couldn't handle the uprooted trees and rocks caught up in the slides. Large crews of workmen had to shovel out much of the debris.

Few of the skilled Italian artisans and quarry workers were U.S. citizens. In 1918, when their mother country called them home for serve in World War I, Marble lost the most important segment of its work force. While contracts continued to roll in, the company could not dig out from the mountain of debt.

Heavy snows, coupled with fierce avalanches, added to Marble's problems in 1918. To make matters worse, creditors filed suit, forcing Colorado-Yule into receivership. Operations slowed, workers were laid off, and the court forbade acceptance of new orders. Finally, fire broke out in August, wiping out six of the town's businesses.

By the end of 1917, Marble was dying. The Crystal River & San Juan Railroad petitioned to stop service. The quarries and mill that produced \$5,422,100 worth of finished stone since 1908 were shut down—forever, it seemed. By the next year, the population had dropped to fifty.

Between 1918 and 1922, capitalists flocked to Marble like vultures, seeking to pick up Colorado-Yule's assets for pennies on the dollar. But in 1920, in the midst of frenzied bidding, the search for illegal liquor went on. In April, one Charles Carey returned to Marble with a heavy suitcase. An alert deputy sheriff, noting drops of moisture seeping from the luggage, clapped a heavy hand on Charles' shoulder and placed him under arrest. The deputy retreated, red-faced, when the opened suitcase revealed a damp Airedale pup that could not wait to find a fire hydrant.



## MARBLE—Boom or Bust (con't.)

Marble did come to life again. The bankrupt company's property was sold in three parcels: mill and railroad; quarries and tram line; power plant and undeveloped claims. Working together, the new owners saw another boom begin in 1922. With the CR&SJ running again, the population of the town grew to more than 400.

Greatness, though, never returned to Marble. Little by little, the operating companies changed hands, finally winding up as a single unit in 1929. The latest owner, Vermont Marble Company, rearranged the old name—yule-Colorado. Production continued through the Great Depression, with shipments of a carload a day from the quarries.

Marble's greatest claim to fame in 1930. The Yule-Colorado Company was selected to furnish stone for the Tomb of the Unknown Soldier. Seventy-five men worked more than a year to cut the huge block of marble, which, when trimmed, weighed fifty-six tons. Hoisted from the quarry, the block was lowered onto a specially-built car, and tram cars fore and aft eased it down the grade. It took four days to reach Marble.

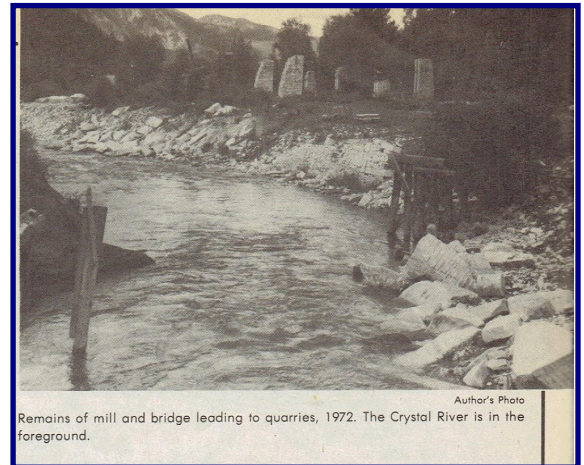
For a decade after shipping the "tomb" block, Marble barely survived. As orders diminished, war clouds increased. Workers were told to seek job elsewhere, and many families left. Nineteen forty-one would be the last year of quarry and mill operation.

But before the last door closed, Nature delivered a massive blow. On August 8, a brown wall of liquid mud crashed down Carbonate Creek, cutting a 1,000-foot swath of destruction through town. The flash flood, triggered by a sudden mountain storm, was temporarily held back by beaver ponds and logjams about three miles up the canyon. But the pressure of the backed-up water was too great. After the crest high marble, debris piled to a height of twenty feet. As a local man said, "The company was going to shut down the town, so the Lord decided to bury it."

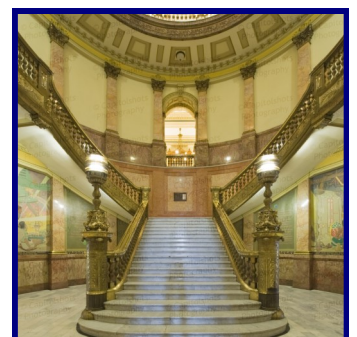
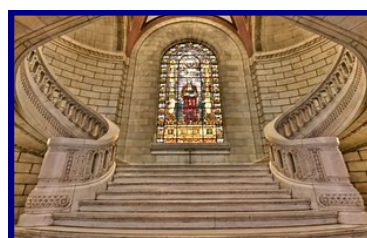
There was no loss of life, and strangely, the mill and railroad station were undamaged. Yet even when the Crystal River & San Juan filed for closure of the line, a few hardy people stayed. After machinery from the mill and quarries was sold and removed, many of the company-owned houses were hauled away for relocation in other towns. The last load of rails and railroad scrap iron headed for Carbondale in January 1943.

Nature still flexed its muscles. On July 31, 1945, the worst flood in history blasted what remained of Marble with a thirty- to forty-foot wall of water, mud, and rocks. Again there were no fatalities, but the town suffered damage much like a World War II bombing raid. It was never rebuilt.

Today (1988—32 years ago) Marble comes alive in summertime. Added to the thirty-odd permanent residents, vacationers and history buffs swarm into the lovely valley. The old quarries are fascinating, and the scenery beyond compare.



**Tomb of the Unknown  
Cuyahoga Court House  
Colorado Capitol**





## SERIOUS COLLECTION of Mineral Specimens

### from the late Laurann Briding Estate

---

This *fine* mineral collection will be liquidated in downtown Colorado Springs at:

**Rebecca Nohe Estate Sales  
76 S. Sierra Madre St. Suite H  
Colorado Springs, CO 80903**

**August 7-9<sup>th</sup> FRI-SAT 9-5; SUN 10-2**

***Appointments are required. Sign up will be on a first come first serve basis. 9 people per half hour will be scheduled. Masks must be worn.***

**Email: [rebeccanohe1@gmail.com](mailto:rebeccanohe1@gmail.com) or 719 291-7643 cell/text**

Please specify date and available time frame request. You will be assigned the earliest time slot available on the day requested. A confirmation email will be sent. Sorry...there will be no preview or presales.

The location is 2 minutes from I-25 (Bijou Exit) in the historic Old Depot area behind the Antler's Hotel. There is ample close-in free parking.

The collection includes:

Colorado specimens, 'Sweet Home' mine rhodochrosites + Silverton rhodochrosites & other nice Colorado examples

*Lazard Cahn's* antique brass binocular microscope

Extensive collection of 'Minerological Record' magazines dating back to 1970's. Most are still in the wrappers

Large assortment of micromounts; thumbnails

Two Swift microscopes

Quality specimens include:

An amount of Wulfenite & mimetite from Ojuela mine & Los Lamentos mine (Chihuahua) in Mexico + specimens from Old Yuma,

Selenite from Canada

Apatite \* Herkimers \* Gorgeous fluorites \* Galena \* Autunite

Fine Dioptase from Morenci mine, AZ

Beautiful azurite, La Salle, UT

Smithsonites, Kelly Mine, NM

Gold specimens

Torbenite, Chalk Mountain, Spruce Pine, NM (radioactive)

Box of Psilomelane, Black Canyon, New Mexico

Aurichalcite from Mexico

AND MANY MORE *desirable* specimens too numerous to list!!!