

Return Bulletins to:
Dusty Rocks
P.O. Box 1803
Klamath Falls OR 97601

First Class Mail ~ Time Dated Material

Bulletin article submissions or inquiries, contact Editors, see page 2.
Address change or questions, call Leah 541-205-4420 or e-mail mrsllas@ccountry.net



Dusty Rocks

**September
2019**

ROCK AND ARROWHEAD CLUB

P.O. BOX 1803

KLAMATH FALLS, OR 97601

www.klamathrockclub.org



DUSTY ROCKS

Rock and Arrowhead Club ~ Klamath Falls Oregon



OFFICERS & EXECUTIVE BOARD

President: Laura Limb
541-273-7503
1528 Dayton St,
Klamath Falls OR, 97603

Vice President: Denise Hard
541-331-1378
3423 Altamont Dr,
Klamath Falls, OR 97603

Secretary/recorder: Sherry Lee
503-867-4112
2226 Applegate Ave,
Klamath Falls, OR 97601

Treasurer: Robert Stroope
541-539-9599
10072 Westbrook Dr,
Klamath Falls, OR 97603

NFMS Director: Kathi Milem
3333 Anderson #3
Klamath Falls, OR 97603

NFMS Delegate: Alyssa Carnes

Member @ Large: Leah Stump

www.klamathrockclub.org
Webmaster Denise Sebastian,
nicee1214@gmail.com Send your items for
sale, photos, adventures, etc

Committee Chairs

Sunshine.....Chris Chance
Program.....Kristin Sayles
Greeter/Door Prize.....
Refreshments.....Chris Chance
Historian.....Don Perryman
Librarian.....
Claims Rep.....Garwin Carlson
Field Trips.....
Black Light Display.....Marshall Curran
Show Chair.....Garwin Carlson
Asst Show Chair.....
Safety Officer.....Laura Limb
Publisher/ Webmaster...Denise Sebastian

Rock and Arrowhead Club Meetings are held at the Klamath County Museum Meeting Room – Main & Spring Streets, using the **West** entrance

Meetings are held on the 2nd Monday of each month at 7:00 pm with the exception of December when we have our Christmas Luncheon and Party **and after the March show, when the meeting is held on Tuesday.**

Visitors are cordially invited to all meetings. To join:

Dues are \$13.50 per year for singles,
\$25 for couples \$30 families

The club mailing address is:
PO Box 1803, Klamath Falls OR 97601

General Objectives of the Club:

To promote popular interest, knowledge and understanding in the various earth sciences, as in Geology, Mineralogy, Paleontology and Lapidary and other related subjects. To sponsor and provide means of coordinating the work and efforts of all persons interested therein.

Helping Others:

The club participates in the NFMS stamp program, saving large commemoratives, airmail, pre-canceled, and foreign stamps of all values. Proceeds from stamp sales will be used to benefit any charity deemed worthy by the NFMS Endowment Fund.

All contents Copyright © 2013-2019 All rights reserved. No part of this document or the related files may be reproduced or transmitted in any form, by any means without the prior permission of the Rock and Arrowhead Club. Permission is hereby given to non-Commercial and not-for profit groups or persons to copy, forward or otherwise share this publication for educational and informational purposes.

THE NORTHWEST NEWSLETTER is published 11 times a year. Copies are sent to each member's household. The cost is included in your annual dues.

Two free copies of the **AFMS NEWSLETTER** are mailed to each member club. Subscriptions are available at \$3.50 for 9 issues. Send payment to:
American Federation of Mineralogical Societies
PO Box 26523 Oklahoma City, Ok. 73126

We are affiliated with

- Northwest Federation of Mineralogical Societies
- American Federation of Mineralogical Societies

Newsletter Editors

Chris Chance 541-891-3608
& Linda Stroope 503-393-5025

Visit Us At www.klamathrockclub.org Contact Webmaster Denise Sebastian nicee1214@gmail.com for anything relating to our website Please e-mail mrsllas@ccountry.net to join & get on our email list.

Reference to use of arrowheads within our club is limited to flint napping activities during workshops, annual shows and personal creations. No gathering of arrowheads on field trips is authorized or suggested by any club members.

Table of Contents:

Officers	pg 2
President's msg	pg 3
Minutes	pg 4
RAC library Book list	pg 5
2019 treat list & Upcoming Shows	pg 6
Ancient Mexican Obsidian	pg 7-8
Word puzzle	pg 9
Upcoming Field Trips	pg 10
Thunderegg areas	pg 11
Virgin Valley	pg 12
Editors' report	pg 13

From the President...

Fellow Rock Hounds,

Where did the summer go? I felt a change in the seasons which made me anxious to start tumbling rocks I have collected over the summer. I hope you are preparing your finds as well.

It is hard to believe that we are beginning our preparations for our Fall Arts and Crafts fair in November. We can use volunteers to help make this event a success. After the fall show is our March rock, gem and mineral show. Please consider donating to our silent auction large rocks and tumbled rocks for our wheel of fortune.

Happy Hunting,

Your President
Laura Limb



Rock and Arrowhead Club
Klamath Falls, Oregon



www.klamathrockclub.org

Happy Birthday



John Church
Tom Endicott
Sandi Hart
John Moreau
Doris Newnham
Don Perryman
Lois Phillips
Charlie Wyckoff

If we've missed you it's because our master list lacks your info. Help us update it, thanks!
Please contact Leah Stump

NEXT MEETING:

Monday September 9, 7pm
Treats by Leah Stump and
Tom & Cheryl Endicott

Save the dates!

Saturday Dec 14 RAC Christmas Party 3-6 pm

See Field Trips—dates & tentative dates, an idea for something new, Page 10



©2019mathnino

Rock and Arrowhead Club
Klamath County Museum
General Meeting Minutes of August 12, 2019



The meeting was called to order by Vice President, Denise Hard, at 7:00 pm, followed by salute to the flag.

Birthday greetings to all born in the month of August.

30 Members in attendance - Three door prizes were drawn.

Welcome to guests – Charles, Ian Dees and Rob Burns

Program - Thundereggs - presented by Tom Endicott and Doris & Gene Newnham - new theories were presented on how thundereggs were formed plus beautiful samples of what to find in different locations.

Review of the July minutes -Not reviewed.

Treasurer's Report – Robert Stroope gave the update on the RAC account.

Northwestern Federation (NWF) Report - Kathi Milem –report not requested.

Sunshine Report - Chris Chance -- No illnesses reported.

Webmaster Report - Denise Hard - not updated.

Newsletter - Linda Stroope and Chris Chance - Please keep submitting pictures and articles on your rock hound adventures.

Club member field trips –

Don Perryman & his brother visited Granite Hill south of Sacramento; Colin Pope went to eastern Montana for agate, petrified wood and dino bones

Club Field Trips: A volunteer is still needed to manage the club field trips:

Next field trip is September 6 - 8 to Tuledad Canyon for agate, jasper and petrified wood, lead by Linda & Robert Stroope

Fall Show Meeting: Tentative set for August 15, 2019, 6:30 pm, Museum. An e-mail will be sent out if date and location changes.

Old Business – None

New Business: None

Next meeting: September 9, 2019 - 7:00 pm at the Klamath County Museum

Respectfully submitted by,

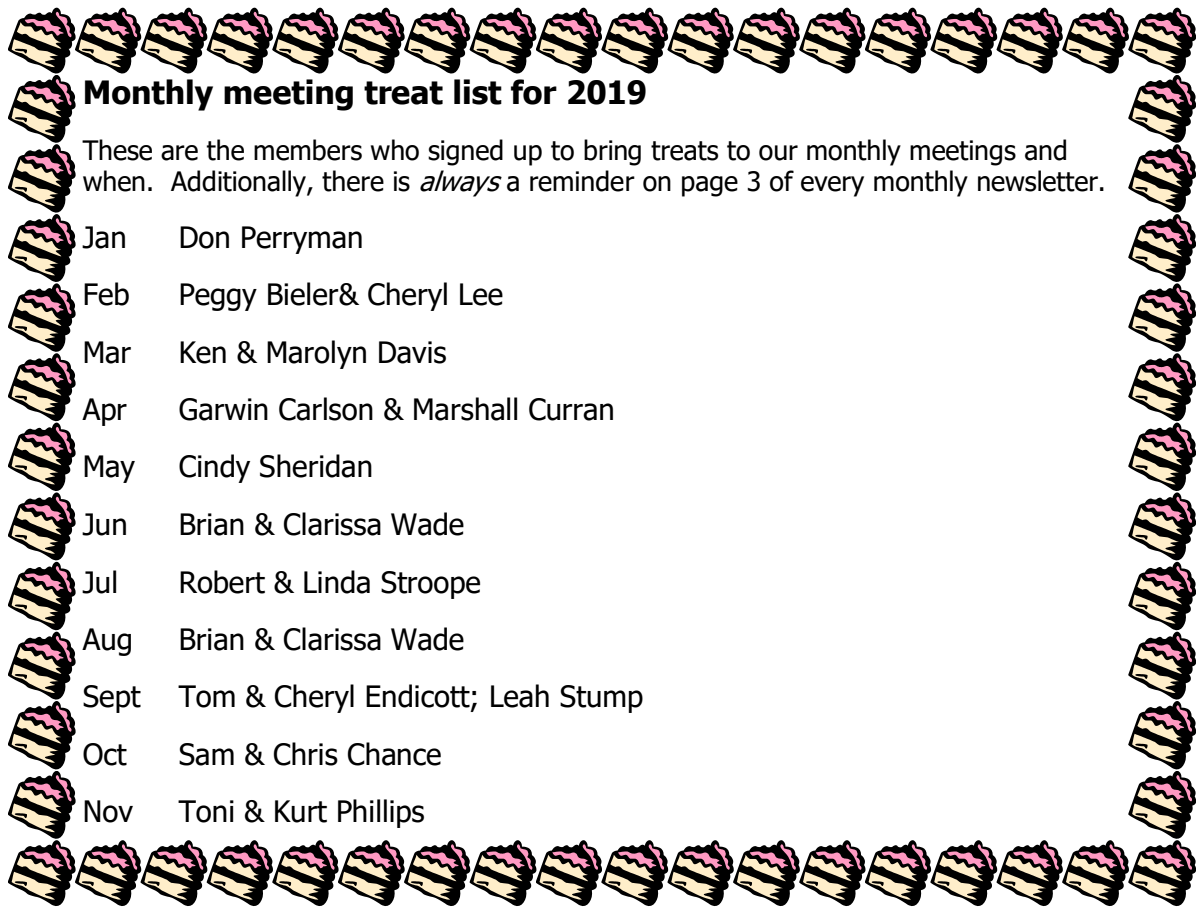
Cheryl Lee,

Recorder

RAC book inventory 7-10-19

These books are stored in the store room adjacent to our meeting room at the Klamath Co Museum, along with several dozen old, but useful magazines. Soon we'll be placing a check out card in each one & ask that you give it to Chris Chance or Linda Stroope, just so we can keep track of who-has-what. If YOU have ANY travel—rock— reference books you'd like to donate, please do! The Club would love to have them. I know we have a few. Thanks to Chris' granddaughter Mandy for making up this inventory.

The Audubon Society Field Guide to N American Rocks & Minerals Chas. W Chesterman	Alfred A Knopf publisher
A Textbook of Minerology E Salisbury, Dana & Wm E Ford	Wiley & Sons
Diamonds...Famous, Notable and Unique Lawrence L Copeland	Gemological Institute of America
Where to find....Gold & Gems in Nevada James Klein	Gems Guides Book Co
Quartz Family Minerals H C Dake, Frank L Fleener, Ben H Wilson	Whittlesey House
Metalcraft & Jewelry Emil F Kronquist	Chas A Bennett Co, Inc
Cabochons Jewelry Making Arthur & Lucille Sanger	Chas A Bennett Co, Inc
Leadville: A Miners Epic Stephen M Voynick	Mountain Press
Dictionary of Gems & Gemology Robert M Shipley	Gemological Institute of America
Gem Cutting J Daniel Williams	Chas A Bennett Co, Inc
The Art of Gem Cutting Dr H C Dake	Mineralogist
Gem Trail Journal Darold J Henry	Lowell R Gordon
The Mineralogist Dr H C Dake	Don Maclachlan
Greigers Encyclopedia of Rockhounding John M Grieger	Griegers, Inc



Monthly meeting treat list for 2019

These are the members who signed up to bring treats to our monthly meetings and when. Additionally, there is *always* a reminder on page 3 of every monthly newsletter.

- Jan Don Perryman
- Feb Peggy Bieler & Cheryl Lee
- Mar Ken & Marolyn Davis
- Apr Garwin Carlson & Marshall Curran
- May Cindy Sheridan
- Jun Brian & Clarissa Wade
- Jul Robert & Linda Stroope
- Aug Brian & Clarissa Wade
- Sept Tom & Cheryl Endicott; Leah Stump
- Oct Sam & Chris Chance
- Nov Toni & Kurt Phillips

Some upcoming shows:

- Sept 6-8: Gem Faire show, Shasta District Fair & Events Center, Anderson CA
- Sept 7-8: 50th Annl show, Marcus Whitman Gem & Mineral Club, Walla Walla Co Fairgrounds Community Center
- Sept 21-22: Cascade Mineralogical Society, Kent, WA @ Green River CC
- Also Sept 21-22: So Wa Mineralogical Society show @ Castle Rock Fairgrounds
- Oct 18-20: Hells Canyon Gem Club + NW Federation convention Nez Perce County Fair Building, Lewiston, ID
- Oct 26-27: Clackamette Mineral & Gem Club, Clackamas Co Fairgrounds, Canby
- Also Oct 26-27 Sacramento Mineral Society of CA big show, Scottish Rite Temple, Sacramento. Impressive website JUST for the show: sacgemshow.com
- Also Oct 26-27: Bellevue Rock Club, Vasa Park, Bellevue WA

Ancient Peoples and obsidian mining in the Valley of Mexico



This incredible World Heritage Site is the city of Teotihuacan, believed built by the Toltec people from approx 950-1150 AD, beginning as a religious center but became the most populated city in the Pre-Columbian Americas. People moved to the area as early as 500 BC. Sometime after 100 BC the construction of the Pyramid of the Sun began. The Aztec came along much later, finding the city abandoned and claimed it for their own.

Virtually every Meso American site of any importance has evidence of the use of obsidian. It was widely used as a part of daily and ritual life (sacrifice and grave goods) and for weapons and was extensively mined & worked here in what archeologists believe were as many as 150 sites. Some, not many, showed specialization in the workshops. The trade area covered the entire Yucatan peninsula, and mines covering the area have been named & grouped by modern scholars into 9 regions. Of these, three were under Teotihuacan control (quarries named Pachuca, Otumba and Chicoloapan. The most prized obsidian of all was mined in Pachuca - prized for its green-gold color and purity. Household use included blades, shaving blades as sharp as any milled steel today, projectile points, dart heads, scrapers, plus decorative ear spools, beads, vases and figurines. These items were primarily made out of grey or grey-green material as it was more plentiful, but the finest blades and decorative items were of the higher quality green obsidian, which was easier to work due to its purity. Picture a *macuahuitl*, a wide wooden club with razor sharp obsidian blades. It was used by Toltec, Aztec, Mayan and Mixtec peoples and the incredible variety of uses for obsidian: household/religious/warfare and some scholars speculate that the plentiful supply and usefulness of obsidian was likely the reason none of these peoples invented metallurgy. It wasn't until the Spaniards invaded that metal was first seen by the Ancients and after that, obsidian fell from popularity. The Spaniards had virtually no interest in obsidian—they were there for gold, silver and slave labor only.

Meso American obsidian macuahuitl – compare the design with a Hawaiian war club with sl

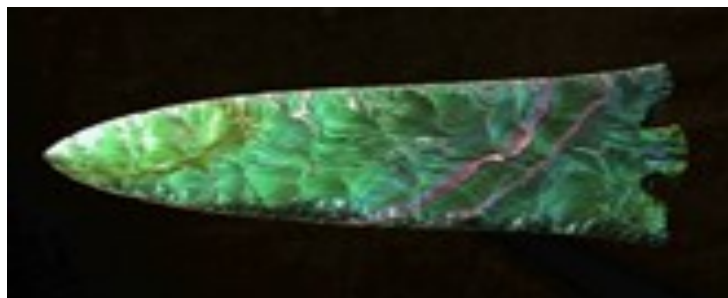


In addition to Teotihuacan, a major ancient source was in what is now the state of Jalisco around the volcano Tequila. This area still has one of the largest obsidian deposits in the world. In the small town of Magdalena in Jalisco state there are many workshops cutting and polishing obsidian. The roads between the towns of Tequila and Magdalena passes through many thousand tons of obsidian. You can help yourself to some and this is the area that Tequila is produced from the Blue Agave, a cactus like plant. There are vast rows of it stretching for miles. Rainbow obsidian was discovered in one area in Jalisco in the 1990's and according to internet sources, most of that is exported to China for cutting/polishing.

Like all things of value, obsidian was first available only the high-status people, but due to the number of quarries and trade routes, it became available and used by lower status people, as well. While valuable, obsidian was too available to have been used as a form of currency.



Green obsidian image from SongofStones.com and green knapped blade is by Woody Blackwell, woodyblackwell.com. Check out his gallery. Lovely items, creatively displayed



Clear, pure green obsidian is, to eye, indistinguishable from emerald.

the untrained

Are there present day uses other than just decorative? Any industrial uses? None that we could find. Perhaps you know of some.

Chris Chance & Linda Stroope

Author & blogger (and rock hound!) Julie Helm of Utah has two entertaining pieces from 2012 about rock hounding in her home state of Utah. We've been on 3 trips to Utah—gorgeous! - and now I'm ready for a 4th. Excerpted from Rockhounding Junkies Part 1:

Copralite Mountain (Juab County): A really incredible place to find big rocks of gem quality copralite--fossilized feces. We don't get to collect dinosaur bones here in Utah, but rather the next best thing--dinosaur poop. Don't worry, it's not still stinky. Whew!

Copralites are trace fossils which show the petrified diet of an animal that lived millions of years ago. How fun is that? We bought a local rock hunting book, found the spot we wanted to investigate, and left early one morning. We saw people that we assumed were rock collectors in other areas, but it didn't seem like anyone was finding much. We kept following the directions in the book we had and drove right to the magic dinosaur poop spot. Hooray! We didn't need to dig holes. The petrified rocks on top of that hill were waiting patiently for us every time we returned. We collected them like you pick corn from a stalk, one rock at a time, and loved it. It's a good two and a half hour drive from Lehi but well worth the trouble.



Linda Stroope

September Puzzle The Old West #1

L L I H T O O B E S R O H W O L P L A
 J U D G E K A N S E L T T A R H A S G
 O O D O P H H T R T L L E W C R I G H
 K O G O C P I E A A R N I A R T R O F
 R N S N I H I R R I H A O O T P T H U
 S S A S I R O R E O R C C I E E D M N
 E R T T R N A L M D E A N K L E I Y D
 D O O A R P N E L G G G L C E K K O E
 L A F U A E S A A I B U O A C R E B R
 I H O H T T T T P U D A N T A A H W T
 A P C R E L S A L D L A A T M B T O A
 R A K A L E A L W S L S Y L P S Y C K
 T R D S H I O W A S H O R E F A L T E
 D G N O O L A S G W R E G D I D L G R
 N E B A N K E R M A M U R R R D I R I
 A L I V E S T O C K N A F I E L B A F
 R E R E N I M D L O G G N V F E I Z L
 B T S H O P K E E P E R L E E F S E E

- | | | | |
|---------------|--------------|-------------|--------------|
| BANKER | FARRIER | LAWMAN | SALOON |
| BARKEEP | FORT | LIVESTOCK | SHERIFF |
| BILLY THE KID | FURS | MINER | SHOPKEEPER |
| BOOT HILL | GOLD MINE | OUTLAW GANG | SITTING BULL |
| BRAND | GOLD PANNING | PISTOL | STAGECOACH |
| CAMPFIRE | GRAZE | PLOW HORSE | TELEGRAPH |
| CATTLE DRIVE | HIRED GUN | POSSE | TRACKER |
| CHAPARRAL | HOGS | RAILROAD | TRAIL |
| COAL | HOMESTEAD | RANCH | TRAIN |
| CORRAL | HOTEL | RATTLESNAKE | UNDERTAKER |
| COWBOY | JUDGE | RIFLE | WATER TANK |
| DOC HOLLIDAY | LARIAT | SADDLE | WELL |

FIELD TRIPS 2019

Some dates are settled, others tentative, as are locations, themselves.

What remains:

* Sept 6,7-8 Tuledad Canyon

What about a gold trip? Who is in contact with the Prospectors?

* Oct 11/12/13 Brookings area

Chuck Newnham has offered his Quartz Mtn opal claim for a field trip! When do we want to go? Let's not pass up this opportunity—it's a day trip, too!

Anyone interested in McDermitt? Owyhee area? Tom Endicott may have a guide for us for Graveyard Point... Succor Creek area? Rome for snakeskin agate?

Anyone interested in a fall potluck picnic with Yadenite hunting? New member David Stark lives near the Pilot truck stop. There are 2 large piles of what was probably illegally dumped fill from an OIT or Sky Lakes project. Lots of Yadenite, easily picked. We could do a fall pot luck, pick & trade Yadenite pieces.

When? Sometime after Tuledad in Sept and the October 11 beach trip. Chris and Linda will organize this when the time comes. Unless it's snowing or pouring down rain, we can enjoy Klamath in October! Thank you David!!



Davis Creek Rainbow— thanks to Scott, Scott's Rock & Gems



Go to Scottsrocks.com for pictures of this dig and the most amazing colorful obsidian you'll probably ever see.

Thanks, Lacey!

THUNDEREGG AREAS

BLACK-STILL AVAILABLE
RED-CLOSED OR PRIVATE LAND

Note: since this chart was created, we have learned that Richardson's Ranch is CLOSED to digging (although not the shop) until further notice.

1. OCHOCO MTNS

LUCKY STRIKE
WHITE FIR SPRINGS
WHISTLER SPRINGS
WHITE ROCK SPRINGS-Surface collecting
Many Private Claims with permission

VALLEY VIEW

3. ASHWOOD AREA

ANTELOPE
TUB SPRINGS
DONNYBROOK

6. EASTERN OREGON

BULLY CREEK/HARPER/DRY CREEK

4. CENTRAL OREGON

RICHARDSONS-(PRIDAY)
POLKA DOT
MCDONALDS-SHOW FIELD TRIPS
OCHS-MADRAS SHOW FIELD TRIPS
FRIENDS-PRINEVILLE & MADRAS FIELD TRIPS

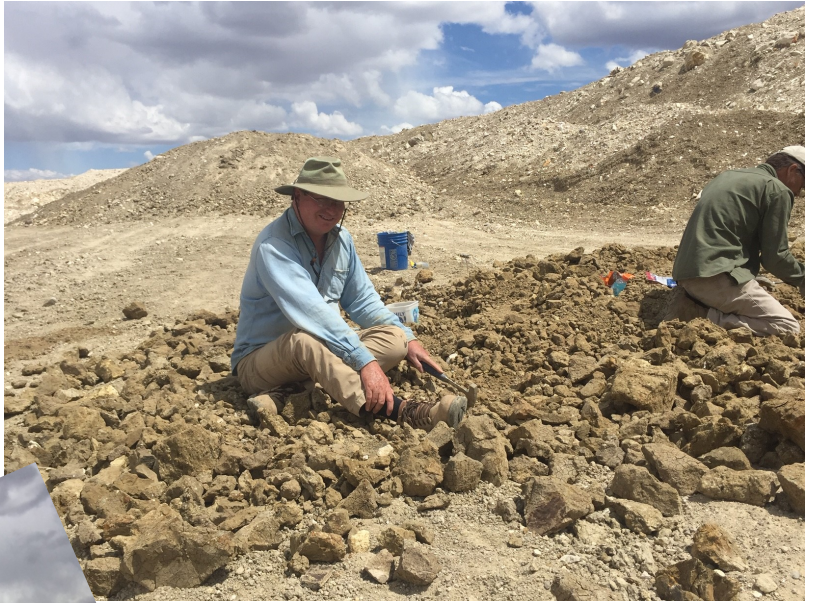
WARM SPRINGS
FRIEDA EGGS

7. MCDERMITT

5. BURNS

BUCHANAN
SECRET RIDGE

Some Virgin Valley pics courtesy of Lacey Jarrell!



Editor's Corner

At our last meeting we had one of the best ever programs put on by club members Tom Endicott and Doris & Gene Newnham. Tom told us about how & why thunder eggs were formed and Doris and Gene showed the group some of their extensive personal collection of thunder eggs. Well done!

On Sept 6-8 we will be on a field trip to Tuledad Canyon between the Nevada and California borders. I am bringing our screen to see how it works for finding nodules and anything else in the area. It will be interesting to see what I dig up. I think sifting will be easier than picking off the surface.

Chris Chance, co-editor email chancechristine66@gmail.com

Thanks to Lacey Jarrell for sending photos from Virgin Valley and a thunderegg map. Sending photos to us for the newsletter is SO appreciated!

No one has expressed any interest in a fall picnic/potluck for an easy pickins' search for some nice Yadenite at the dirt pile at David Stark's property near the Pilot. I know that Chris & I will be doing this for sure—weather permitting. We'll let you know when. Hot chili, cornbread, maybe some stew and ?? Sounds good, right?

Don't forget Tuledad, a week away. A nice drive to Alturas, over the scenic pass to lovely little Cedarville and down the Surprise Valley to Duck Lake Loop Road. Best Alturas stop for gas & C store is Chimney Rock Travel Center just a couple of miles past Alturas near the turn off from 395 to CA 299 on the way to Cedarville. Excellent prices, CLEAN store & restrooms *every* time we've stopped. The C store with gas coming into Cedarville is very good, too.

Linda Stroope, co-editor email stroopemail@gmail.com

