

DUSTY ROCKS

SEPTEMBER

2011



ROCK AND ARROWHEAD CLUB

P.O. BOX 1803

KLAMATH FALLS, OR 97601

www.klamathrockclub.org

~ DUSTY ROCKS ~

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SEPTEMBER 2011 ~ Rock and Arrowhead Club ~ Klamath Falls Oregon

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↔

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 Greeter/Door Prize.....Holly Zumbun
 Refreshment.....Chris Chance
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 Librarian.....Jessica Limb
 CharityJohn Long
 Claims Rep.....Garwin Carlson
 Field Trips.....Marshall Curran
 Black Light DisplayChuck Newnham
 Show Chair.....Jennifer Zimmerlee
 Asst Show ChairMarvin Stump
 Safety Officer.....Jeff Eastburn
 Publisher/ Webmaster.....Denise Sebastian

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 April after the show.

Visitors are cordially invited:

Dues are \$10.00 per year per adult (\$18 for couples), \$7.50 ages 16-18 and free for juniors ages 15 and under whose parents pay dues.

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.

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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
- Oregon Council of Rock & Mineral Clubs

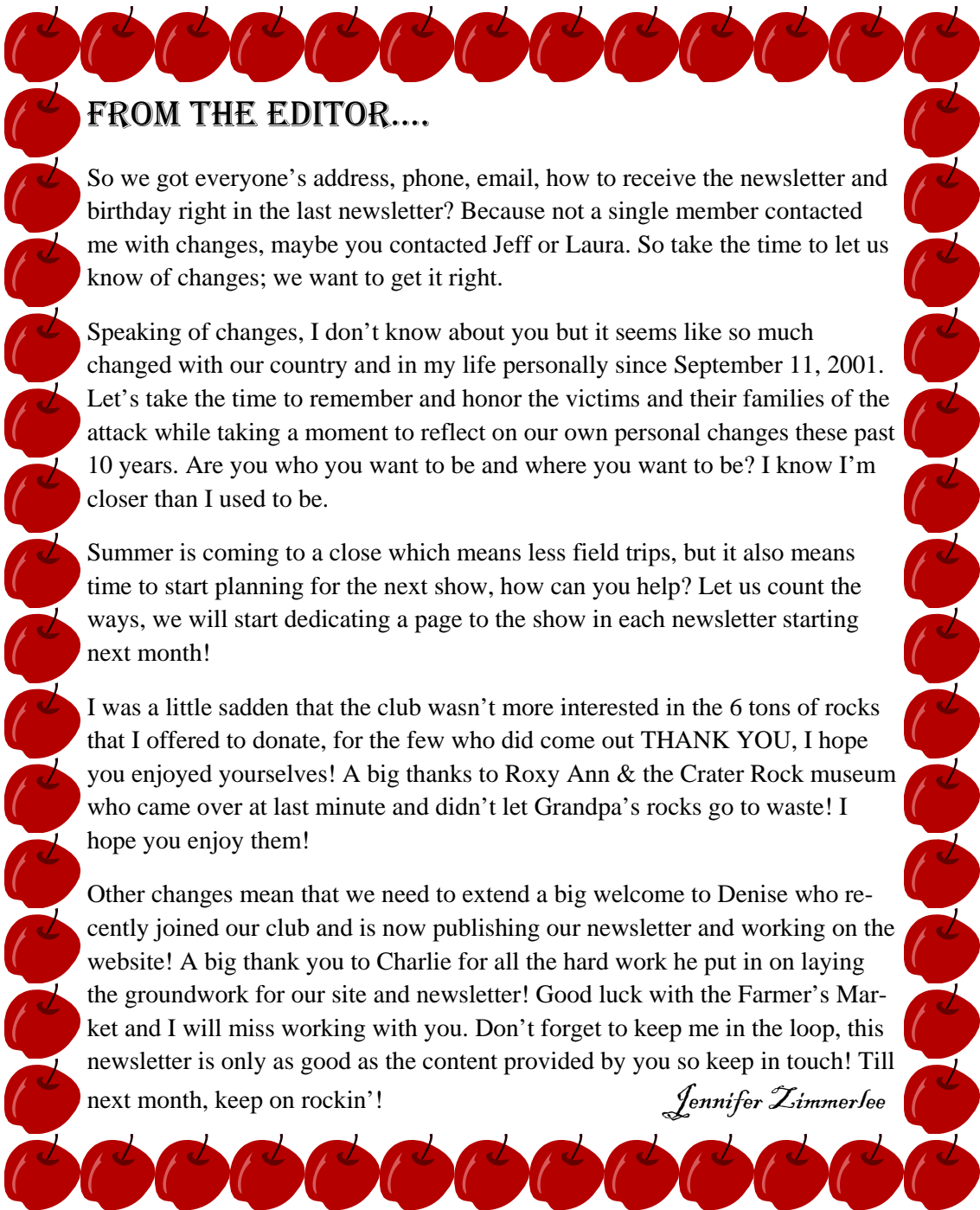
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September 2011



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FROM THE EDITOR....

So we got everyone's address, phone, email, how to receive the newsletter and birthday right in the last newsletter? Because not a single member contacted me with changes, maybe you contacted Jeff or Laura. So take the time to let us know of changes; we want to get it right.

Speaking of changes, I don't know about you but it seems like so much changed with our country and in my life personally since September 11, 2001.

Let's take the time to remember and honor the victims and their families of the attack while taking a moment to reflect on our own personal changes these past 10 years. Are you who you want to be and where you want to be? I know I'm closer than I used to be.

Summer is coming to a close which means less field trips, but it also means time to start planning for the next show, how can you help? Let us count the ways, we will start dedicating a page to the show in each newsletter starting next month!

I was a little sadden that the club wasn't more interested in the 6 tons of rocks that I offered to donate, for the few who did come out THANK YOU, I hope you enjoyed yourselves! A big thanks to Roxy Ann & the Crater Rock museum who came over at last minute and didn't let Grandpa's rocks go to waste! I hope you enjoy them!

Other changes mean that we need to extend a big welcome to Denise who recently joined our club and is now publishing our newsletter and working on the website! A big thank you to Charlie for all the hard work he put in on laying the groundwork for our site and newsletter! Good luck with the Farmer's Market and I will miss working with you. Don't forget to keep me in the loop, this newsletter is only as good as the content provided by you so keep in touch! Till next month, keep on rockin'!

Jennifer Zimmerman

NEXT MEETING:

September 12th

- 7:00 pm
- Refreshments:
- Fairisine Fore
- Program:



Refreshment List 2011	
September	Fairisine Fore
October	Ken & Marolyn Davis
November	??? (your name here)!

I DIG ROCKS!





August 8th, 2011 Meeting Minutes *Submitted by Linda Watson*

Jeff Eastburn called the meeting to order at 7:00 pm

Pledge of Allegiance

Guests: Nicole Combs, Kendall – Holly's cousin, Ellie Hart

Door prizes: Craig Heath from Washington State, left a box of rocks to donate to the club, using them as door prizes.

Winners: Ellie Hart, Denise Sebastian, Lori Zumbrun, Chris Chance, Jeff Eastburn, Fairsane Fiore

Kid's Program – memory wire bracelets.

July's minutes were approved as posted. Motion made by LeRoy Bieler, seconded by Garwin Carlson.

Treasurer's report. We still have money.

Correspondence: getting less as more and more clubs are going to email.

Birthday contributions were made

Historians report: We need to find someone to take this job over.

Federation Report: Alyssa gave report. Next 3 years: Kennewick WA, Butte MT, Pendleton OR. Changed bylaws – to not have a mid-year annual meeting – changed to “if needed”. Sandi Masterson made the motion and Garwin Carlson seconded – RAC voted to keep the business meeting in the fall and to be represented at that meeting. This will keep the mid year meeting as an informative meeting only.

Editor's report: Made it! She's going to continue creating our newsletter. Jennifer won a plaque and rosette for RAC's newsletter.

Website report from Denise Sebastian: She has 'control' of the website. She's rebuilding and rehosting the website.

Charity, August: Longs not here.

Librarians report: Books are out and available.

Old Business: T-shirts, the last of the special anniversary tshirts are available tonight. Decals – most people who ordered them are not here tonight. Black light room – waiting to hear from Museum. Chuck will check on T-shirt and hat prices and report back in September for an order decision.

New Business: Museum hosting program for kids, RAC is passing out rock bags made by various members, meeting at NEW to go rock hunting.

Discussion on raising membership dues to cover costs. They will bring it back to the Executive Committee.

Field trips: Planned – Virgin Valley Field Trip. Cathi & Alyssa took a bucket of needles to the Federation's auction and they went well. Juniper Ridge field trip in September for club members only. Cindy – Petrified State Stump park in Nevada. Sunstone trip – 100 ct club now by Laura Limb. Sandi Masterson – field trip came to her – friends brought her 6 buckets of slabs. Laura Limb – Krystal Kaleiscope – crystallized rhodenite – wanting to exchange field trips with us.

Friday Ranch open for a few days – brought home about 100 pounds, Tom Endicott.

Hart Mountain trip by Kermit Warner.

Sunshine Report: Andrew is doing good. Heidi is feeling alittle better.

Refreshments: Provided by Robert Gresham & Linda Watson

Meeting adjourned at 8:45PM

Refreshments for October, Ken & Marilyn Davis



Shows & Trips

September 5-11	NW Rockhound Retreat, Antelope, OR
September 10-11	Roseburg, OR
September 10-11	Walla Walla, WA
September 17-18	Castle Rock, WA
September 17-18	Juniper Ridge Opal Trip

Happy Birthday!



- Sandi Hart - Klamath Falls, OR
- Wolf Laskowski - McKenzie Bridge, OR
- Gene Newnham - Klamath Falls, OR
- Chive Nichols, Bonanza OR
- Don Perryman - Klamath Falls, OR
- Lois Phillips - Klamath Falls, OR
- Wayne Powell - Klamath Falls, OR
- Adam Skog - Jacksonville, OR
- Natta Skog - Jacksonville, OR
- Linda Watson - Klamath Falls, OR
- Carol Wiley - Siletz, OR
- Charlie Wyckoff - Klamath Falls, OR

ROCKS IN THE NEWS.....

The first weekend in September means two things this year: Labor Day weekend and the return of the Valley Springs Powwow. This year marks the 37th annual Valley Springs Powwow, which attracts rockhounds from around the world to Snyder's Ranch outside Valley Springs. The event will be held from 8 a.m. to 5 pm. Friday, Sept. 2, through Monday, Sept. 5, and as always, admission and parking will be free.

For 37 years the Snyder Ranch has welcomed hundreds of vendors and thousands of friends and family out to the meadow on the working cattle ranch. Traditionally held the first week in May, volunteers last year decided to hold it in September, as the past few years saw heavy rains. Thousands of rocks, gems, minerals and fossils will be on display from every part of the world. Area gem and mineral clubs from Calaveras County and surrounding areas will give demonstrations and provide educational activities for children and adults to enjoy.

"I'm just looking forward to seeing all the wonderful friends I've made throughout the years," said Betty Snyder, who started the event on her property with her late husband, John. "We've been so blessed."

The Powwow supports several community organizations, including the Community United Methodist Church, whose members sell homemade pies; the Valley Springs Area Business Association, which offers snow cones; and the Boy Scouts offering breakfast and burgers. Other features will include handmade crafts, antiques, Model As, Indian frybread and kettle corn. The Calaveras County Chamber of Commerce will hold a prize drawing for a gold nugget and Quilts of Honor will also have a booth with prizes, with winners announced every 30 minutes.

A Native American family will return from the Mojave Desert and will perform their traditional dances throughout the event in Betty's Meadow, the natural entertainment area. The Chili Cookoff will be held at 6 p.m. Thursday, and anyone who wants to share their chili can bring a pot and taste all the entries. Others can taste the entries for \$5, and entry forms are available at Valley Springs Pizza Factory.

From the Calaveras Enterprise, San Andreas CA



Klamath County Museum & RAC

Children's Rock Hunt, August 2011

Pictures by Chris Chance





Shop & Safety Stuff

Unknotting Knotty Chains

A fine chain can be very frustrating when it knots. Put a drop or two of salad oil on a piece of waxed paper. Lay the knot in the puddle and work at it with two straight pins. The knot should come apart quickly.

Remove Carbonates

One way to remove carbonates, such as calcite, from quartz and amethyst is to cover the specimen with fresh vinegar and allow it to stand overnight. Repeat if necessary. Wash and then place crystals in washing-type ammonia for 8 to 12 hours. Remove, rinse thoroughly, wipe and air dry.

Poisonous Malachite

Did you know that malachite is very poisonous in its raw state? Never lick the material to see the color. Don't even repeatedly lick your finger and apply. When you grind, wipe the contaminated oil off your skin right away. If you smoke



and the taste becomes very sweet, you are absorbing the malachite dust. The *copper carbonate dust is mixing with the moisture in your mouth and reacting to the tar in the tobacco, turning it into saccharine. Needless to say, you should take some immediate steps to stop the inhalation.

Via: *Amador Nugget 07/00: (The Mountain Gem Editor: *changed copper oxide dust to copper carbonate dust.) and The Mountain Gem Sept. 03*

Still working on the museum room, contact Marshall if you can help!

If you check out the black light from now on you will be required to leave a deposit, return the light, get your deposit back!



Should we raise our dues and to what?

Join in the discussion!

Meet the New Member

Joe Silica is just the man
Who always says, "Of quartz I can".
And he says, "That stone will fit",
Then you can bet your chert on it.
Chrys O"Tile is a funny bloke,
Don't ever ask him "Do you smoke"?
Or you'll be quick to learn,
"No thank you, I don't even burn".
Matt Finish is in quite a fix,
He lets his grits and polish mix,
And though he works from noon till nine,
He cannot get a super shine.
Our secret agent, as you can see,
Is called AL₂O₃.
But if she's introduced to you,
Then you may call her ruby, too.
Now here's a chap I nearly missed,
His name is Mr. Garnet Schist.
A reformed character, you know,
He knows that the heat's on down below.
Miss Lidia Tumbler is the girl,
Whose life is one unending whirl.
But even she requires a stop sometimes,
So she won't blow her top...

Author Unknown
From an Australian Lapidary magazine Via The Rockhound Gazette,
January 04 Roamin' Rams Feb. 04



USFG Faceting Dictionary

Jan. 15, 1994, by Fred Van Sant (from the USFG website)

Adjacent Facets: Two facets on a stone which form a line between them. If facet A shares a line with facet B they are adjacent.

Alignment: The positioning of the crown break facets across from the pavilion break facets, as they are shown on the diagram sheet.

Angle: Used alone, 'angle' refers to the angle which a facet makes with the Girdle Plane.

Angle of Incidence: A ray striking a facet's surface at 90° has an angle of incidence of zero; its deviation from 90° is its angle of incidence.

Apex: A single point on the crown farthest from the Girdle Plane.

Apex Facets: All facets meeting at the Apex. If there is a Line Apex, then these are both facets forming the line plus all facets meeting at either of the two points on the end of the line.

Arc: A smoothly curving line which is a segment of a circle. The term "arc" usually refers to a girdle section made using an offset device.

Baguette: A small step-cut stone, usually set in a row around a larger stone.

Barion Cut: A type of cut that retains the brilliant type culet area by having steep half-moon facets hanging down from the girdle. The crown is often a step-cut.

Baroque, or Freeform: A stone which is non-symmetrical in shape, and lacks repetition of a pattern of facets at regular intervals. It has neither rotational nor mirror-image symmetry.

Bearing, Bearing Angle: The angle of a facet's normal intercept, as measured on the girdle plane. This is also called the "Circumference Angle", and is used mainly for describing girdle facets. The Zero Degrees line lies on the X axis, to the right of the Point of Origin. On faceting machines, the bearing angle is the tooth of an index gear times DPT.

Breakpoint Method: A special sequence of meetpoint cutting which makes the shape. A set of facets is cut to a center point. Then a set of Break Facets is cut in a chaining manner. Then a set of 90° girdle facets is cut using the Break Facets' index numbers, to make a level girdle line. This produces the shape.

Brightness: The amount of light returned back through the crown, expressed as a percentage of the light which entered the crown. The determination of brightness may be expressed as a subjective evaluation, or as the result of a computer analysis; in the latter case it is relative to the lighting model used and other program characteristics.

Brilliance: A general term used to describe a stone's overall appearance. It always includes Brightness, and often includes Color Spread or Scintillation.

C: The height of the crown as shown on the diagram sheet. It is measured parallel to the vertical axis of the stone.

CAM: The Centerpoint Angle Method of making a preform. 1) Facets are cut to a temporary centered culet point at given angles and indexes. 2) The dop arm is then set parallel to the lap (90° on protractor), and facets are cut using the same index numbers to make a level line around the stone. This results in the desired preform shape.

CAM Facets: The sets of facets--their angles and indexes--which are used to make the CAM preform.

Carat: A unit of weight. Equals $1/5$ of a gram, or 200 milligrams, or 100 points.

CED: Center-to-Edge Distance. This refers mainly to a girdle facet, and is the length of its normal intercept on the girdle plane.

Cheater: A bearing angle adjustment which allows 'indexing' between teeth. This is usually a worm gear with a knob that is turned by hand.

Chip: A break-out of material from the surface of the stone.

Circumference Angle: See Bearing Angle.

CLAM: The Corner Locator Angle Method for locating a corner on a preform. For the pavilion, two temporary facets make a line from culet to corner.



Color Spread: The spreading out of white light rays into various colors after they enter the crown and as they pass through the stone.

Cone: A rolled facet shaped like a cone, whose point is centered on the dop arm axis.

Cone Point: The point of a cone, usually made to serve as a temporary or permanent center point at the culet.

Continuous Girdle: One which has no vertical break line, as in an oval or circular stone where the entire girdle is polished by rolling the stone on the lap.

Critical Angle: The angle of incidence at which total reflection occurs. At the surface of two differing mediums, usually the gem material and air, if the light ray is below the critical angle of incidence, light will pass from one medium to the other. See Angle of Incidence.

Crown: That part of the stone above the girdle.

Culet: 1) A small facet parallel to the girdle plane made to prevent chipping the culet point; 2) A single point on the pavilion farthest from the Girdle Plane; 3) A bottom line on the pavilion parallel to the Girdle Plane (also called culet line); 4) Definition 2 or 3 plus the facets attached - the area of the culet.

Culet Facets: All facets meeting at the culet. If there is a Line Culet, then these are both facets forming the line plus all facets meeting at either of the points on the end of the line.

DPT: Degrees Per Tooth: This is equal to 360 divided by the Gear Number.

Direction: The rotational direction in which the index numbers increase in magnitude on the diagram sheet. It is either Clockwise (CW) or Counterclockwise (CCW). The highest number on the index gear normally lies on the Y axis of the plan view.

Dispersion: Gemology--See dispersion charts for various minerals. Generally--the degree to which white light passing through the stone is changed into various colors; "Color Spread" is preferable for describing finished cut stone performance.

Double Rose Cut: Same as Rose Cut but having a pavilion which is shallow like the crown and usually is a duplicate of the crown pattern.

ECED: (Equal Center to Edge Distance) This term refers to the length of an imaginary line on the girdle plane which extends from the center of the girdle plane to connect at 90 degrees with a girdle facet, as seen in a plan view. A design labeled ECED indicates the stone can be preformed at a single mast height setting. See also Normal Intercept.

Elevation: The height of a point above the girdle plane. In discussing pavilion points, assume stone is held upside down as you would normally do when examining the pavilion, so all point elevations are positive.

Elevation Angle: The angle a plane or facet makes with the girdle plane. See also Angle.

Ellipse: A curving line whose every point conforms to a precise mathematical formula.

Elliptical: A stone shape whose perimeter is an ellipse.

Facet: Any bounded surface on the stone. A facet is not a plane, but flat facets are small areas of the plane on which they lie.

Faceted Girdle: A girdle made up of a series of flat facets. In the plan view they appear as a series of straight lines.

Fixed Point: Any point where four or more facets meet (as opposed to Floating Point).

Fisheye: If the stone is held closely over newsprint which can be read by looking straight down through the table and through the main culet facets, it is a fisheye.

Flatness: If a facet is perfectly flat, the entire surface of the facet lies on a single geometrical plane. If any part of the facet curves away from the exact plane, it is called "rounding". If a break line is seen on the facets surface it is not flat--it is called a "double-facet".

Flaws: These are visible cleavage planes, fractures, inclusions, gas bubbles, etc. If a flaw breaks the surface it becomes a surface flaw.

Floating Facet: A facet whose perimeter points are all floating points. The facet is not anchored to a fixed point, so its size is adjustable.

Floating Point: A point formed by only three facets (as opposed to Fixed Point).



Juniper Ridge Opal Mine Trip

September 17-18

Chuck and Ken Newnham are offering for club members only, the chance to come out and enjoy the beautiful mountain while digging for the gorgeous fire opal. You have two options: 1 dig through the tailings for free or 2 dig in the mine for a fee.

Fire opal like other opals, consists of silicic acid with a relatively high water content. Named for its color that comes from fine traces of iron oxide, the warm glow of a fire opal is valued by jewel enthusiasts world wide. Fire opals are often faceted or cut into cabochons allowing the transparency and rich glow to shine. Juniper Ridge Fire Opal is also beautiful carved. Because of the high water content and softness, care must be taken in curing and working your stones, please ask questions or get suggestions from Chuck about your finds. While hunting fire opals, reds are the hardest to find then you are looking for clear yellows and oranges. The opal is found in very hard rock. The goal is to remove the opal nodules without shattering them, digging the biggest chunk or rock out to get the biggest opal. You will need hard rock mining equipment if you go into the pit, including shovels, hammers, picks etc. Also plenty of water and bug spray.

Parking and camping are available by a creek and from there Chuck will take you up to the mine area where there is plenty of area and opportunity to work the tailings and find lots of material. There are no hookups or facilities so you must take in anything you want for a day or nights stay. Road can be rough but is passable to the parking area, after that you will need 4x4 to make it on up to the mine, or plan on hiking up. Chuck will negotiate a rate with you if you want to work the pit. Make sure to take your camera the sunsets are wonderful! (and send me the pictures)

Directions from Klamath Falls:

Follow 140 E towards Lakeview, go to the Quartz Mountain Sno-Park, take the road at the restroom building, road 3715 for 1 1/2 miles to stop sign, take left turn on road 3790 for .4 miles, take right turn on road 397 (no # listed) go 1.4 miles to campsite.

For more information please call Chuck at 541-892-7486 or visit their website at www.juniperridgeopal.com.

