



*Cheyenne Chapter  
GPAA*

P.O. Box 6504  
Cheyenne, WY 82003

[www.cheyennegpaa.com](http://www.cheyennegpaa.com)



**May 2005**

**\*\* MEETING LOCATION \*\***

**The June meeting will be held on June 7th at the Sandalwood's Restaurant in the Holiday Inn on Fox Farm Rd at 7:00pm.**

**MEETING MINUTES**

Meeting was called to order by Bob Morrison with 34 members present and 3 guests/new members. The meeting began with our guest speaker, Tom Florich from the U.S. Forest Service. A question was asked of Tom Florich if a person could go around the bend of Douglas Creek and work that area. Tom replied that there is a tailings pile up there that should not be disturbed as it has a high level of mercury.

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Nomination/elections were held:  
President: Bob Morrison - accepted  
Vice President: Larry Duvall - declined  
Lee Beatty - accepted  
Treasurer: Stan Lang - accepted  
Secretary: Peggy Stumpf - accepted  
Newsletter Editor: Peter Somontes - accepted  
Claims Director: Lyle Shingleton - accepted

All individuals accepting the positions were elected to their respective office.

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Bob and Lyle will be re-marking the GPAA claims on Douglas Creek this summer. Bob will also try to get around and visit more of the prospectors that show up at Douglas Creek.

Bob Morrison and Bob Bruce purchased items from the Denver GPAA Gold Show to sell at the Cheyenne Gem Show and to club members. They purchased from the GPAA booth, using our club credits - 100 snuffer bottles, 10 classifiers, 10-12 scoops. Not all of the 158 credits were spent in case

we may need to purchase supplies at a later date. Bob and Bob also purchased items from local vendors, they picked up lope magnifiers, funnels, magnets, tweezers, etc. Bob Morrison will also be ordering 1/2 oz and 1 oz gold vials. These items will be available at the Gem Show as well as in our Club Store at the meetings.

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Remember when you renew your membership, make sure you specify you are signing up through the Cheyenne Chapter so the club will earn more credits.

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Bob received a call from Mrs. Christensen in Laramie. Her husband died in September, he was one of the original members of the Chapter. She is going through his equipment and will be selling the equipment that the kids don't want. Currently she has two pocket scales for sale, one is new and the other is an older model. Contact Bob Morrison for more information.

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#### RAFFLE DONATIONS

Eloxite - 2 metal gold pans, 2 plastic gold pans

Lyle Shingleton - tokens

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#### RAFFLE WINNERS

George Durako 1 oz silver round

Lyle Shingleton vial/tweezers

Ron McGee snuffer bottle

Dale Fisher token

Carl Filter nugget

George Durako funnel

Lyle Shingleton snuffer bottle-

Carl Filter nugget

Name Tag drawing -

Don Gochnour nugget

50/50 George Stumpf - \$34.50

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#### UPCOMING EVENTS

May 14-15: Cheyenne Gem Show

Holiday Inn

June 7: Chapter Meeting 7:00pm Holiday Inn

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Hello! This is Pete Somontes the new Newsletter Editor. It's been awhile since I've done a newsletter but I'm looking forward to it. There will be some changes to the format, but not too drastic. I invite ideas from each of you. If there is something that you would like added to the newsletter you can send me an email at [psomontes@Yahoo.com](mailto:psomontes@Yahoo.com) or let me know at the monthly meeting. I also invite you to submit any articles you have written for inclusion in the newsletter.

I am adding two new features in this issue;

WEBSITES OF INTEREST will list web addresses that I think contain information we can all use. The information may or may not have anything to do with prospecting but I promise I won't stray too far a field.

The second is RECIPES, we all have some favorite recipes, so let's share them with each other.

Looking over the club roster I see that a significant number of members do not have or have not provided an email address. If you use email please provide your address, using email for the newsletter saves the club money in copying and postage.

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## WEBSITES OF INTEREST

The BLM has a website where you can check on gold claims. Go to [www.blm.gov/Lr2000](http://www.blm.gov/Lr2000).

Wyoming Geological Survey [www.wsgs.uwyo.edu/](http://www.wsgs.uwyo.edu/)

The Perth Mint of Australia [www.perthmint.com.au](http://www.perthmint.com.au)

Click on 'About Nuggets and Gold' for some interesting facts on gold nuggets.

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## RECIPES

### BANNOCK

Bannock is a fry bread cooked in a frying pan. It originated in Scotland and became a staple in pioneer and Native American diets because it was quick, easy, and tasted good. As you can imagine there are almost as many varieties of bannock as there are people, this is a basic recipe, feel free to experiment.

4 cups flour (any flour will do but bread flour works best)

4 teaspoons baking powder

1 teaspoon salt

4 tablespoons vegetable oil (NOT olive oil)

Combine all the above and add enough water to make a stiff dough (bread like consistency).

Mix well and knead for ten minutes. Grease and heat a frying pan.

Form the dough into cakes about 1/2 inch thick and 2-3 inches in diameter, dust lightly with flour.

Lay cakes in pan over heat. Shake the pan at intervals to prevent sticking. Cook about 2 minutes per side or until a toothpick stuck in the cake can be pulled out clean.

Enjoy!

Optional additions: dried fruit

Sugar and cinnamon (my favorite)

Wheat germ

Bran

Nuts

Dried peppers

Corn

Bannock can be eaten plain, with butter, jelly, peanut butter, honey, cheese or anything you want.

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GPS

By Peter Somontes

The Global Positioning System (GPS) was developed by and is maintained by the U.S. Air Force. Its primary purpose is to provide accurate locating of friendly and hostile units. The system consists of 24 satellites in orbit around the Earth. Each satellite transmits an ID and time pulse. A ground based receiver picks up the pulse and uses the information to compute its location. Now, one satellite is not enough to provide a position fix, so the receiver listens for other pulses. At least two satellites are needed for a fix, three or more provide a better, more accurate position.

It didn't take very long for GPS receivers to show up in the civilian market. The first units were slow, large and very expensive. They could only receive information from one satellite at a time, the information received was stored and the receiver listened for another satellite's pulse. That information was also stored and the process repeated itself until the receiver had enough data to compute the position. Anything blocking a clear view of the sky, trees, mountains, inside a building, prevented the signal from reaching the receiver.

Today's units are much better. They are much smaller and can receive up to twelve signals at the same time, so obstructions don't affect them as much. They have faster processors so they can obtain a position fix in only a couple of minutes. The price has also dropped dramatically, a small, simple GPS unit costs around \$100. If all you need is a unit that will lead you back to your vehicle after a day's hike these units are perfect. If you want more, and you have deep pockets, units are available with build-in maps or you can connect them to your computer and download maps from the Internet.

All GPS units give you a choice of which coordinate system, called grids, you want to use. The most popular systems are;

Latitude/Longitude- World wide usage.

Universal Transverse Mercator(UTM)- World wide usage.

Ordnance Survey of Great Britain(OSGB)- Only covers Great Britain.

Universal Polar Stereographic (UPS)- A special grid for the North and South Poles.

Military Grid Reference System (MGRS)- System used by the U.S. Military.

Don't buy a receiver unless it supports UTM and Latitude/Longitude since these are universal grids. At this point you may be wondering what these other systems are, after all, the only grid you ever heard of growing up in grade school is Latitude/Longitude(L/L). The truth is that L/L works very well on the high seas but not so well for land navigation. L/L was developed to use celestial sighting and time as the primary means to determine a position. The navigator uses a sextant to take a sighting on the Sun, Moon or a star, and using a chronometer for time, does a mathematical computation to determine where he is. All positions are measured in Degrees, Minutes and Seconds. It is difficult to achieve an accurate fix on a land map where the scale is 1:24000, the scale reads 1 mile = 2 5/8 inches and your coordinates are in degrees, minutes and seconds.

A better, more accurate system is Universal Transverse Mercator (UTM). You are probably thinking "Oh no! I've got to learn another system?" RELAX. UTM is really easy. UTM is based on the military map grid and is read in meters. A UTM coordinate reads like this:

Zone Easting Northing

13 404460 m.E 4572500 m.N

The UTM Grid is not used above latitude 84 deg. North or below latitude 80 deg. South. Those areas are under the Universal Polar Stereographic (UPS) grid. The UTM grid divides the Earth into 60 Zones. Each Zone is numbered and is 6 degrees wide. Zone 1 is located at 180 degrees West Longitude. As you move east the Zone number increases, for instance Wyoming is located in Zone 13. That is, we are 13 zones east of the starting position. Zones have vertical and horizontal grids. Each Zone is divided in half

vertically by the Zone Meridian which is ALWAYS labeled 500000 m.E. Coordinates greater than 500000 are east of the meridian, coordinates less than 500000 are west of the meridian.

An example: 504580 m.E is 4,580 meters east of the Zone Meridian.

480400 m.E is  $500000 - 480400 = 19,600$  meters west of the Zone Meridian.

Remember, the coordinates always increase as you move east.

The Northing coordinate indicates how far north or south of the equator you are. In the Northern Hemisphere the number reads exactly how many meters north of the equator you are, the equator has a value of 0000000 m.N. For the Southern Hemisphere you have to do some calculating, the equator has a value of 10000000 m.N.

An example: Northern Hemisphere 4572500 m.N is 4,572,500 meters north of the equator.

Southern Hemisphere 4572500 m.N is  $10000000 - 4572500 = 5,427,500$  south of the equator.

Remember, the coordinates always increase as you move north.

The UTM grid is build onto all USGS maps. The maps are marked with the Zone number, and in the margins you will notice blue tick marks with numbers just below them. Those are UTM coordinates. Use a long ruler to draw a line between corresponding tick marks and you have a UTM grid on your map. Each square is 1 kilometer or 1,000 meters on each side. You can buy special rulers to use with maps in the 1:24,000, 1:25,000, and 1:63,360 scales. These rulers make an already simple grid even easier to use. They allow you to determine coordinates from the map for entry into a GPS receiver as waypoints.

For more information on UTM and using your GPS receiver I recommend the book "GPS Made Easy" by Lawrence Letham, it is an excellent resource and is available from Amazon.com, REI, Eastern Mountain Sports, and many other places for about \$15.00

Next month we look at some GPS receivers.

All information in this article is derived from "GPS Made Easy" by Lawrence Letham.

### **.PROSPECTOR'S CACHE**

**Felix Paydirt Gourmet Gold. Club member John Eggleston is taking orders for the 2LB bag of Felix Paydirt. John orders a case of 10 bags at a time and receives a free bag which the club uses as a raffle item. The bags are \$40(\$35+ \$5 shipping).**

**If you would like to order a bag or two,**

**Contact John at 635-0229**

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**Quartz epidote crystals hand dug from the Fox Park area. Each crystal has been hand dug, polished and mounted in either a pair of earrings or as a necklace. Buy separately or buy them as an earring/necklace set. Assorted styles available. \$10-15.**

**Call Louise Morrison 632-7895**

Lmrr3964@aol.com

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**For Sale: White's Metal Detector w/power pak and case.**

**Call Charlie or Joan at 307-632-8137**

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**Electric Trunk Lift. Lifts a scooter into the trunk of any car or a van or pickup. All parts included, \$250. Center latch louvered tailgate. Fits late model Chevy or GMC, cost \$313, sell for \$150. Front mount receiver hitch. Fits most late model trucks & SUV's, half price, \$50.00**

**Call Francis Oline, 307-634-1133.**

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**2" Proline floating dredge, \$750.00**

**Call Dallas Lake, 307-649-2321**

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**For Sale: Keene 4" triple sluice, jet flare dredge, (model 4505PH). Like brand new, less than 20 hours use. Includes 6.5 hp Honda, \$2000 (Compare to new price of \$2875 from Keene) Includes the extras of swivel nozzle (3" reduction, legal in Wyoming), 100' air hose, expansion air tank, regulator (\$470 value in the extras). Keene A52 sluice box, \$50 - used twice. New price is \$99.95 on the internet. Keene sieves (30, 50, 100 mesh) - \$10 each. 4 gold pans (two GPAA type, one blue proline pan, one black pan) \$2.00 each. Mini cleanup sluice (Tom & Perry's) \$10.**

**5 gallon buckets - free -(come get them out of my shed). Some small misc stuff I'll give away - pump for recirculating mini sluice, mallet, some small digging tools, etc. Last but not least - LDMA Membership - sells for \$3500 at the gold shows - all that's needed is get it transferred to your name \$3000.**

**Call Mike Hayes (307) 640-4378**

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*Club members: If you have items for sale, contact Peggy Stumpf at*

*307-632-9945 or [circlestar@yahoo.com](mailto:circlestar@yahoo.com) to have your ad placed here.*

*Your ad will also be on placed on the Chapter website.*

## CHAPTER CONTACTS

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