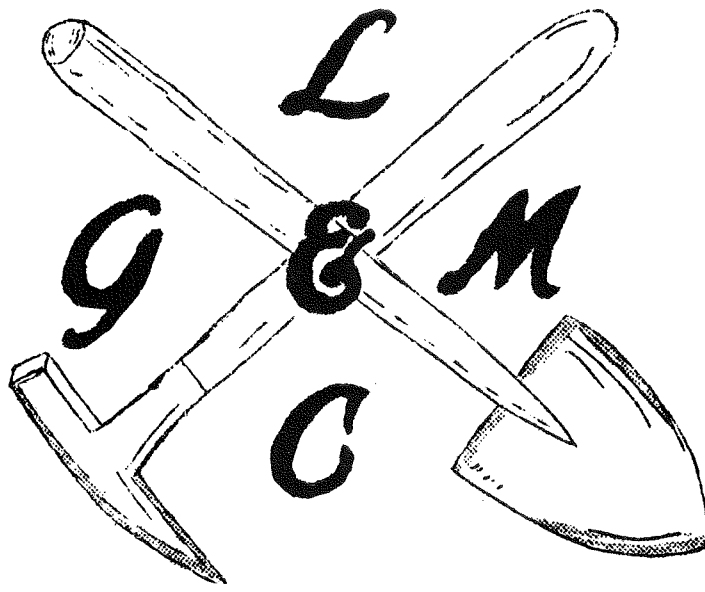


June 1964

THE PICK & SHOVEL



MONTHLY BULLETIN OF THE
LINCOLN GEM AND MINERAL CLUB, INC.
LINCOLN, NEBRASKA

LINCOLN GEM AND MINERAL CLUB, INC.

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First Vice-President	Everett Weber 5310 Colby Street
Second Vice-President	Bruce Simon 3922 South 20th St.
Recording Secretary	Mrs. Phyllis Parks 3510 Everett Street
Treasurer	James Parks 3510 Everett Street
Corresponding Secretary	Mrs. Dorothy Engelhart 4130 Witherbee Blvd.
Historian	Mrs. Maurice Tracy 3601 South Street
Librarian	Mrs. Dorothy Engelhart 4130 Witherbee Blvd.



Affiliated with:

Midwest Federation of Mineralogical and Geological Societies

American Federation of Mineralogical Societies



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F O R

Your Lincoln Gem and Mineral Club

COLORING BOOK



It is Sunday May 3rd. Color the day bright and sunny! See the many scrap piles? Color them inviting. See all the rock-hounds? Adults and Juniors, too! Color their shirts all different bright colors! Color their laughter full of joy! Color the gravel scoops and rock-hammers bright and shiny!

See Linda Parks, our youngest rock-hound? Color her eyes blue and her hair brown. Color her precious, too!

See the picnic baskets and the coffee mugs? Color everyone hungry. Color the food good!

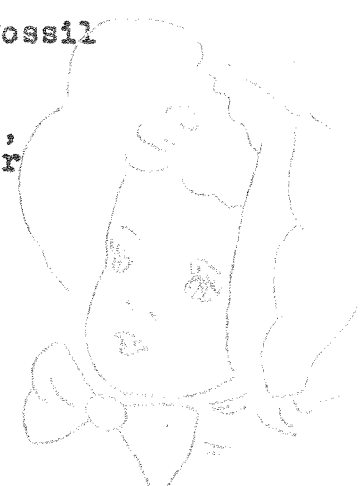
See the nest of snakes under some old lumber? Color them green with yellow stripes! Color the children excited!

Color Dorothy Engelhart the color of fossil bone!

Color some common opal, petrified wood, some agate and some beautiful jasper! Color some for everybody!

Color me happy! Color me tired!


Kathryn Ulrich



THE PRESIDENTS' PAGE

There are only three more months before the Lincoln Gem and Mineral Club puts on their show. Everyone should begin now to plan an exhibit to put into this show. After having a tremendous show last year, that was something to be proud of, people will undoubtedly come and expect to find something a little bigger this year. We do have a lot of beautiful work among our members and they do an exceptional job of displaying it. Please give serious thought to placing a case in your show.

A hobby show was held at the Gateway Shopping Center on June 11, 12 and 13th. The Lincoln Gem and Mineral Club was asked to take part in it. Some of your fellow members took their displays and the club case "Gems On Location" was exhibited. A lot of interest was showed by the public at this show.

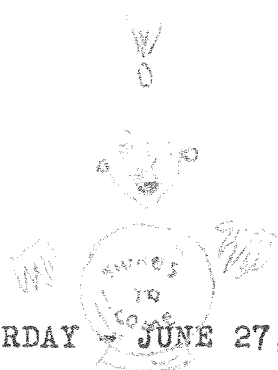
On June 27th a special meeting will be called. May I call your attention to this as this is the second reading of the by-law changes. This is an important meeting to each of you members, so be there to cast your vote. Roberts Dairy Party Room and 7:30 June the 27th.

September 5, 6 and 7th. Remember this date as it will again be the Presidents field trip to the fairburn country. This is over the labor day weekend at Fort Robinson. I have about three new areas to take the party hunting which will be new to everyone this year (weather permitting). Plan your time to make this trip. This is usually the clubs largest field trip and all who have made the trip in the previous years will tell you of the fun we have had.

Be sure to check your bulletin this month as there are some rock swaps, picnics and rockramas close by that you members might enjoy going to. None are far away and would make a nice outing for the family.

See you all the 27th of June and Roberts Dairy Party Room.

Thomas Simmons
President



SATURDAY - JUNE 27, 1964

Special Meeting - 7:30 p.m.

Program - The meeting will have its second reading of the proposed changes in the by-laws. Voting on these by-laws and the reading is the purpose of the special called meeting.

Study - Quartz. (See following page for details)

Roberts Dairy Party Room
211 South 20th Street

* * *

REFRESHMENT COMMITTEE

Mr. & Mrs. James Parks

Mr. & Mrs. Jerrold Kohn

Mrs. Norma Miller

* * *

FIELD TRIP #4

June 28 -- Fremont, Nebraska -- Gravel Pit.-- We will lunch together at Fremont City Park. Eat at 1 p.m. sharp. Leave for gravel pits at 2 p.m. -- Be on time as gates to this area are locked. They will be opened again when we leave the area.
 Bring drinking water to use at the pits as there is no water there for this purpose.
 Jasper, petrified wood and other excellant cutting material is found here.
 Trip sponsored by Virgil Carveth.

July 12 -- Weeping Water, Nebraska -- This trip is in the process of being made. You will recieve notification of it before it is made.

* * *

H.E.L.P. Eliminate litter please -- This summer " DON'T BE

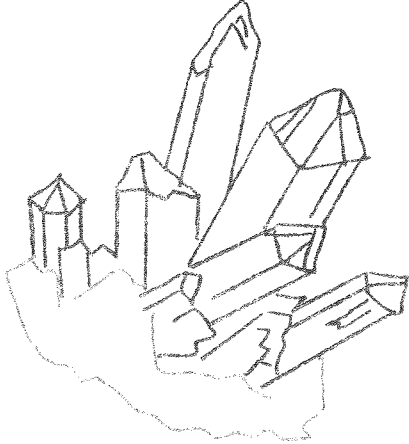
A LITTER CRITTER"

MINERAL OF THE MONTH

"QUARTZ"

The Study Aid Feature for June will be the only point of interest after the business of the evening is taken care of so make it a real "ROCK" meeting by bringing some piece of quartz. Crystal, cab, or slab; beautiful, useful, or rare.

* * *



USED MOTORS

LAPIDARY EQUIPMENT AND SUPPLIES

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ROUGH CUTTING MATERIAL

C L Y D E B E N H A M

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* * *

H*E*L*P

elp keep the highways and by-ways of our country neat. With so many persons using the recreation areas, nature does not have time to recover and heal the ravages of use, so we must help.

liminate misuse on purpose. In every picnic basket and in all camping equipment pack plenty of grocery bags. They make fine litter bags. When you set up camp bring these out first!

ittering is most often thoughtless action. Let's borrow a slogan from the Rocky Mountain Club; "What is carried in can be carried out." Where was the candy wrapper before you ate the candy bar? The banana peel before you ate the banana? In your pocket or in your pack; so put it back there -- the greater portion of your lunch is comfortably carried in your tummy!

lease remember your outdoor kitchen or bedroom of today is your neighbors' living-room tomorrow! Apple cores, empty pop bottles or other litter are not acceptable decor for any living-room.

Ku

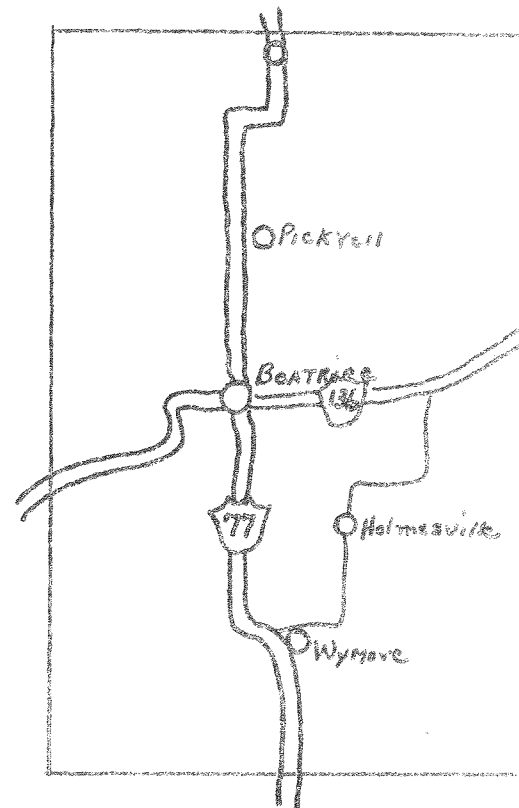
It is presumptuous for any individual to speak with certainty about how something happened unless he actually watched it happen. Even then they should be sure what they thought they saw actually took place. Therefore when it comes to explaining what happened to cause a rock or crystal to form we can only make an educated guess. In many cases however we can make a well-educated guess. The following is an amateurs educated guess as to how the geodes in Gage County were formed.

I believe that most of us are familiar with the geodes or crystal-lined vugs found near Wymore and Holmesville. They contain several different minerals: Quartz, calcite, celestite, barite, pyrite, sphalerite, fluorite, chalcopyrite and maybe more. These geodes or vugs are almost always lined with quartz and sometimes have one or more other minerals present.

But - Here comes my favorite question - Why are they what they are and where they are? Why does one have a certain mineral in it and one in the same rock several inches away not?

Most of us know that most of eastern Nebraska and points south was once part of an ancient sea. The limestone which underlies most of our area formed at the bottom of this sea as calcium carbonate, dissolved in the water, precipitated out and settled to the bottom along with sand, coral, shell, and plant and animal life at the bottom. The bulk of the matter was CaCO_2 for the lime quarries in eastern Nebraska are from 92% to 97% calcium carbonate. There were obviously other minerals present however. The ones we are interested in are Barium sulphate (Barite), Strontium sulphate (Celestite) and Iron sulfide (Pyrite). These other minerals precipitated out of the water also, sometimes in local concentrations.

Layers of gravel, sand and loess accumulated on top of the limestone in subsequent time. In time holes and crevices appeared in the limestone. Ground water from precipitation dissolved the minerals above and percolated down through the limestone. When it encountered holes oftentimes it lost part or all of its mineral content and passed on. Left was a crystal of quartz, barite, celestite, calcite or pyrite.



HOW DID GAGE COUNTY GEODES FORM?
(continued)

Actually then the secret as to what mineral is in what vug is answered by where the water was previously and what it had dissolved. Then if held up long enough for a crystal to form something was added to the collection in the vug. Then it waited for you or me to pry it out of the rock.

- Gene Eno - Reporter

* * *

At a do-it-yourself mine near Franklin, North Carolina, Mrs David Stock of Dalton, Georgia found a 86.5 caret ruby. She says the ruby was appraised and valued at \$50.00 a caret -- total of \$4,325. The mine charges tourist \$1.00 to go into the mine and try their luck in finding rubies. Mrs. Stock claims her luck has changed her whole life.

* * *

95

Left Before
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OBSIDIAN -GOLD SHEEN OR RAINBOW ----- FOR SHORT TIME --- 75¢ POUND

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FINDINGS --- ROUGH MATERIAL --- MACHINERY --- ASSORTED SLABS

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ROCKY NUGGETS

The field trip to Haith's Quarry at Holmesville, Nebraska was a success and the following attended: Mr. & Mrs. Arthur Bloyd and Clifford, Lyle Way, Mr. C. Ray Waddel, Harold Eno, Gene Eno, Thomas Simmons, Mr. Walter Moser, his daughter and grandchildren, Mr. & Mrs. Lloyd Baugher and daughter Jo, Mr. & Mrs. James Parks and daughter Linda, Mr. & Mrs. Ralph Ulrich, Mr. & Mrs. Pat Donovan, Mr. & Mrs. Elwin Trump and daughter, Mr. & Mrs. Leslie Miller and sons, Mr. & Mrs. Roger Sanddusky and daughters, Mr. & Mrs. Norman Engelhart and Chris. There were a total of 38 present and a lot of fun was had by all. I sure liked Mr. Moser's sack lunch. It arrived by special service and I'd say one daughter is spoiling her dad. An to think there wasn't home made ice cream to go with those fresh strawberries.

Mr. & Mrs. Claude Clary spent the Memorial Day week-end at Fort Robinson and of course it rained and rained. They walked back into the collecting area anyway and Roslie walked back to the car with each foot carrying at least ten pounds of gumbo. She was looking for jasper but red & white, pink, black & white fairburns lightened the load she was carrying.

Mr. & Mrs. Arthur Beckman are back in town with us again after their winter in Arizonia. Anyone who is planning on doing some hunting in that area should have a chat with him.

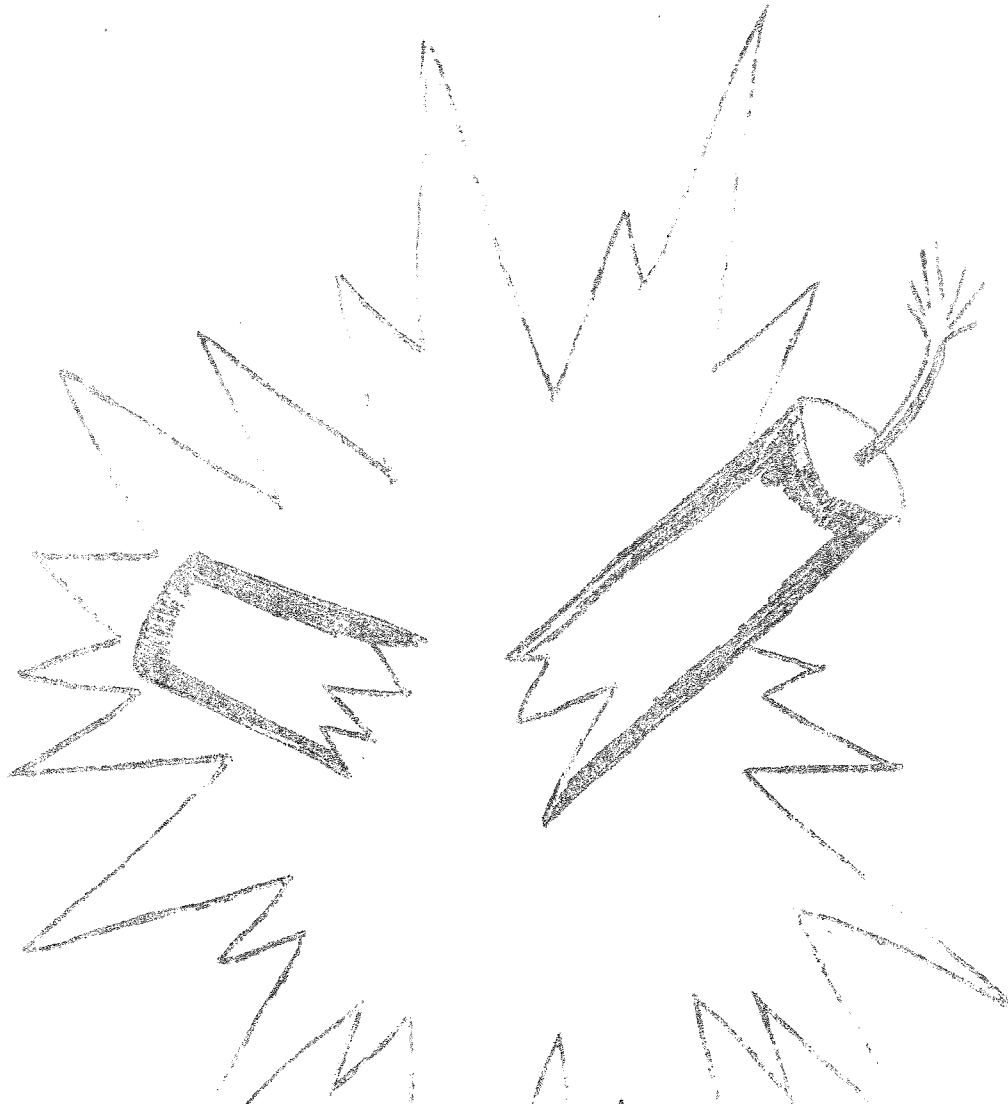
Mr. & Mrs. Maurice Tracy have just returned from the Black Hills in South Dakota. Rainy Weather plagued them the whole trip but they did get some hunting done. The sight seeing there though is always beautiful.

Another successful field trip to Kansas for pink gypson was had by all those attending. Gene Eno, Arthur Bloyd, Norman Engelhart, Harold Eno, Thomas Simmons, Tom Powers, Mr. & Mrs Howard Taylor and family, Elwin Trump, Mr. & Mrs Pat Donovan, Dale Bowers and son and the guests of Mr. Elwin Trumps from Kansas. Using Thomas Simmons jeep, Tom Powers has a shuttle service. Just honk your horn and he would pick you up so you could ride that last mile in to the diggings. What a helpful service.

Willard & Pearl Haas of Yakima, Washington, formally members, are back in Lincoln for a vacation. Willard brought back a bragging rock he had cut. A sphere of rose quartz, one side is a star and the other side a six ray star. He gave Millie and Bob Bainbridge a rainbow obsidian sphere which they were thrilled to have recieved.

Marjory, Gary Needler and Lona Simmons returned from their vacation in the Black hills. They met Mr. Frank Dutton out there at Fort Robinson. They also saw Dr. Lloyd Tanner and the William Holdorfs. Gary and Marjory found a large ammonite.

Dorothy Engelhart
Reporter



Epoxy 220 is the jewelry makers standard. It is made specifically for jewelry assembly. Epoxy 220 is the worlds strongest, toughest, most versatile adhesive for the lapidariest. Available to you as a two system easy to dispense bottles.

FINDINGS AND MOUNTINGS
BOOKS
SILVERSMITH SUPPLIES
TUMBLERS
SLABBING MATERIAL
CUT STONES FOR JEWELRY
MACHINERY
TUMBLING MATERIAL

A MESSAGE FROM OUR MIDWEST PRESIDENT
RUSS KEMP

You will be happy to learn that our MWF now has a family of 155 clubs with a total of more than 9000 adult members, your Federation continues to grow in size, activities and enthusiasm.

We are sorry to report that the Indianapolis Society have found it necessary to withdraw their bid to host our 1965 Annual Meeting. Before you adjourn for the summer months, consider the advantages of holding a Federation show, we hope that we will receive a bid from one of our member societies at the July meeting in Muskegon for the 1965 Annual Meeting which will be our 25th Anniversary Show.

Our efforts in behalf of the American Federation Scholarship Fund are now showing substantial returns, a full report of this will be given at Muskegon, we know that you will continue these efforts even though your society does not meet during the summer months. Many societies and quite a few individuals are giving cash donations as well as supporting the Betty Crocker coupon campaign, keep up the good work and our Federation will move from second place to the top as contributors to this fund.

We look forward to seeing many of you at the Muskegon show and I wish to thank each of you for the cooperation and encouragement that you have given your elected officers and appointed committee chairmen during this term.

Enjoy your hobby and have a pleasant collecting summer.

Russ Kemp
President MWF



THE PEBBLEPUPS
CORNER



THE SHOW MUST GO ON. As you know the rock show is Saturday and Sunday, September 26 and 27th. I just thought I would remind you to mark your calender and keep it open. Very soon in the mail you will receive a postcard to be answered. These post cards will let me know who is displaying what and how much space will be needed. If you happen to go on a vacation before show time, I hope you will look for something unusual for the show. We need variety. I hope everyone has at least one good idea and is working on it. If anyone has a question or an idea and would like some help, I will do my best to help. I am hoping the show will be a little better than last year. It would make everyone proud to know we tried and we did it.

Respectfully your
Junior Chairman,
Judy Weber

WADDELL MINE, GLOBE, ARIZ

WADDELL MINE, GLOBE, ARIZ.

RAINBOW AND GOLDEN SHEEN

LARGE SUPPLY MEXICAN AGATE MINERALS

DEALERS FOR THE SLIK TUMBLERS

OPTICAL VISORS ---- HAND MAGNIFIERS ---- OPALS



THE LETTER-A-MONTH
by Tolson R. Radloff

TIPS FOR EXHIBITORS IN 1964 COMPETITIONS

Show time is here again, and those of you who plan to exhibit, especially at the Muskegon Midwest Convention, should be aware of the importance of knowing and using the Uniform Rules when readying your display. Here are a few things to keep in mind:

Be sure you are entering the correct Exhibitor Group. Those who have never exhibited before will have a fair chance in the Novice Group, but only if Advanced and Master competitors are in their correct groups.

Be sure you enter the correct Class as well as Division -- for example, don't enter a General Lapidary Class when you have only one type of work, such as cabochons.

The Rules require accurate labeling--don't take for granted that a label from a commercial source is automatically correct, as it may be only a trade name, like Wonderstone. If it's not in your reference books, it may be incorrect.

Mineral specimens are required to be labeled with the "name of the mineral species, the name of variety of the species..." Since the name of a species can only be that name under which a mineral was first designated by authorities, the true name is the species name. The variety of a species is a mineral which has some slight variation from the species, such as color, form or composition, but has the same essential constituents or formula. A good example of this is the species Quartz, which has a variety Amethyst, among others. The true mineral name is still Quartz, and should be labeled such. Many minerals, however, have no varieties, and in such cases the name of the species is enough; but a variety is required on the label if it exists.

The rules for lapidary labels requires "the variety of the mineral species (only) or material...", but when no variety name exists the species name is entirely correct. No label should bear a sub-variety name as being the name of the mineral-- it may be used if desired, but only in parenthesis, and preferably on the line under the variety name. The "material" referred to in lapidary labeling is when the object is composed of rock or organic materials rather than of one mineral. Most of these are not listed in authorized references, but examples such as these are permitted on labels in lapidary: Obsidian, rhyolite, amber, petrified bone, petrified wood, granite, etc.

USE YOUR REFERENCE BOOKS: Dana's Textbook of Mineralogy has an "Index to species" in the back. All bold type names listed here are species names; the lighter type names are variety names.

FLATIRONS MINERAL CLUB
Boulder High School
17th and Arapahoe, Boulder, Colorado

SATURDAY, JUNE 27
9 A.M. to 9 P.M.

SUNDAY, JUNE 28
9 A.M. to 6 P.M.

ADMISSION: ADULTS 25¢ CHILDREN UNDER 12 WITH ADULT FREE

COMPETITIVE EXHIBITS

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DOOR PRIZES ----- REFRESHMENTS ----- SWAP TABLE

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Corning, Iowa

JULY 19 -- 9 A.M. to 5 P.M.
(daylight savings time)

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LUNCH WILL BE AVAILABLE ON GROUNDS

Camping Grounds -- water, etc contact Vern Ashenfelter, Pres. 804 Quincy
Corning, Iowa.

SHERMAN'S ROCK SHOP

1 3/4 MILES SOUTH OF ONAWA, IOWA

ON HIGHWAY #75

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BRING YOUR TRADING STOCK

SPACE FOR CAMPERS, TRAILERS, TENTS, ETC.

(COFFEE WILL BE ON ---- TO WELCOME ALL OUR FRIENDS AND NEIGHBORS)

NO SELLING ----- OR ----- TAILGATING