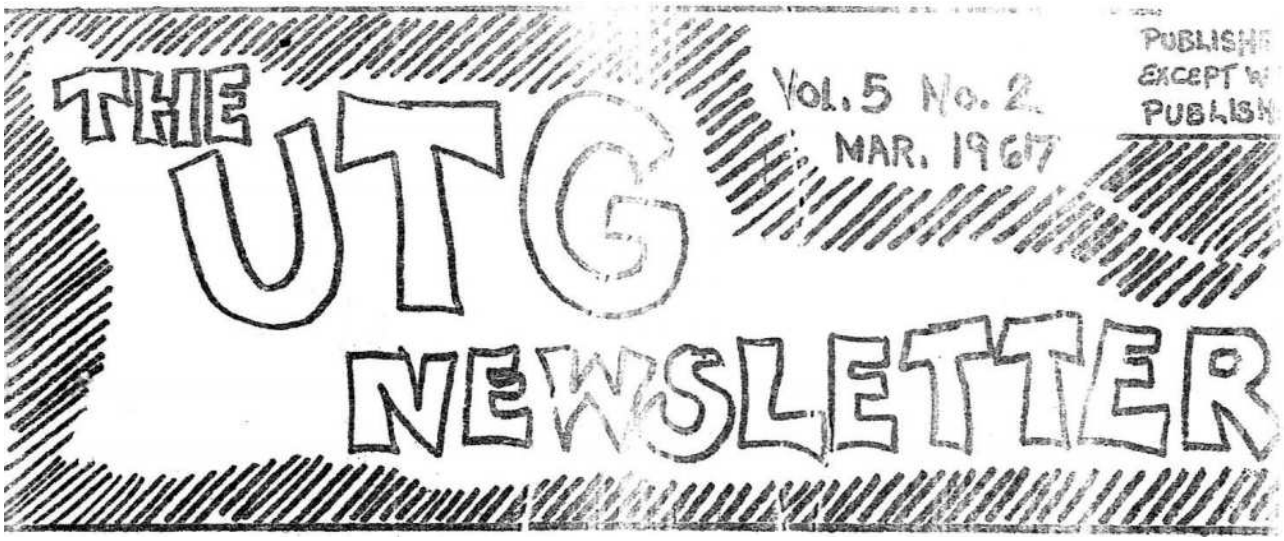
THE MONTHLY VOICE OF U.T. GROTTO



CONTENTS: EDITORIAL- TRIP REPORTS – CAVE BREATHING – HISTORY OF DEVIL'S SINKHOLE – SEC – REPORT ON EXEC. COUNCIL – OMW – ADVERTS. [STAFF: C.I. LOVING, C.G. JENNINGS, CAROL RUSSELL,WMN RUSSELL, DICK SMITH, J. SUSTARE. [Scan/OCR by William R. Elliott, Jan. 2022]

The elections are now gone by and once again by poular demand Orion Knox is leader. The others are as follow Tom Tracy, Carol (Westmorland) Russell, i.e. Mrs. Bill, James Strickland, Rooney Bob Burnett (one or two t's? Plemma), Marsha Meredith, and re-elected was our hero Merrydith Turner. He does the library which is very full now, see the last issue. A new book we are getting is very pretty, I saw it; John has it. Lots of pictures by Tom Barr.

We have lots of officers now and this means bigger and better things, we hope. Better programs and more neatly planned trips…

::::::::::::::::::::::::EDITORIAL::::::::::::::::::::::::::::::::::

The "Sink Hole" trip is over and no one fell in or got damaged by anything other than spilled grease..

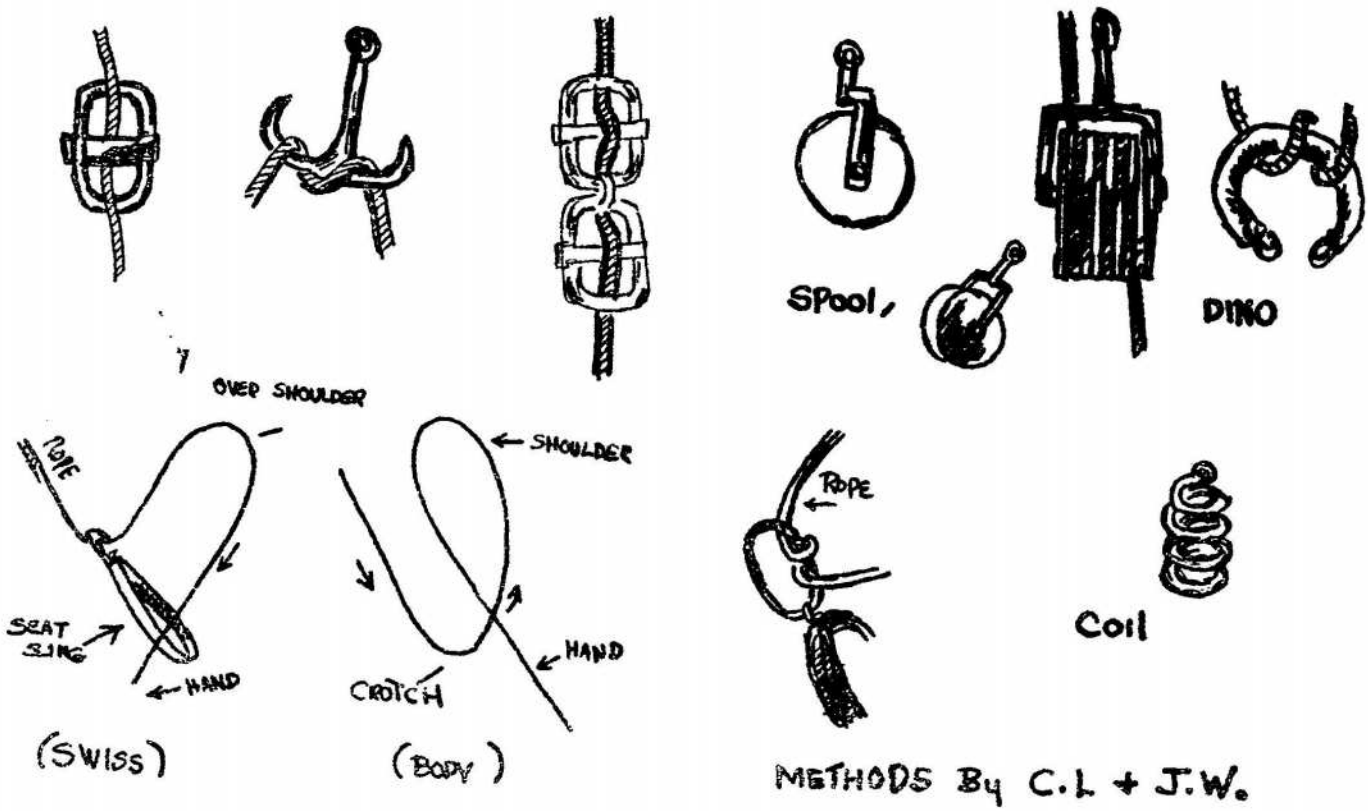
**::::::::::::::::::::::::::::::::::

2. Novice fell into a pit. Non-fatal - Seveve.
3. Two exposure deaths, climbing in waterfall area; one died because he tried to help other.
4. Party trapped by flashflood; one minor injury.
5. Dive Cavers - two drowned.
6. Experienced caver fell - no delay.
7. Caver fainted from fatique possibly - no belay fell from ladder , fatal.
8. Fall - Concussions. (From Caving in Britian reports)

To this I can only add, UTSS has been extremly lucky as accidents go, In the past there have been some large errors made and some near tragedies, but no one has been hurt. Terry Plemons turned upside down on rappell a few years back and was righted by T. Raines rappelling down to him. T. Raines leaped off the edge of the Devils Sink Hole with 100 feet of slack on a stout manila rope. Had it been nylon he would possibly have bounced off the bottom. The rope was rigged to the pully and a Land Rover. The only thing that kept this from being a disaster was fate. The truck was moving forward to lower the rope. It was Dark. Signals were crossed. The truck stopped before the appointed down marker, This happened last year.

Safety is something that too many of us take for granted.

Anyone who has anything to say on this subject or any other concerning caving in general can have this space.
NSS has an article on exposure in a recent issue that may be worth the trouble to read. Exposure and fatigue symptoms.



- NEWS -

The executive council of the UT Grotto convened Wednesday evening at 611 W. 23, on March 8. Six of the seven officers were present: OrionKnox, Bob Burnett, Carol Russell, Marsha Meredith, James Strickland and Merydith Turner. Tom Tracy was unable to make it.

Orion Knox called the meeting to order at about 6 pm, and began to compile a budget, covering various items as they come up for discussion. Ed Alexander, outgoing expedition/equipment chairman, reported on the state of club equipment: mapping epuipment and cable ladders, OK; rope, inadequate. Ed said he would order a coil, the lesser part of which would be cut off for individual members' orders, the rest to go to the club.

Merydith Turner requested $45 to purchase books for the library, and to pay for binding. A. Richard Smith requested $10 for the Texas Speleological Survey, which was raised to $15. After some discussion, the newsletter was placed under "operating expenses", with no exact amount of money alotted for its operation. The editors can use the Steno Bureau account for needed materials at will.

Marsha Meredith reported a standing bill of $40 to Miller Blueprint; Terry Raines reported that the AMCS owed the club $30 and would pay; James Strickland said Speleosupply had earned $16 that would add to the club income. Orion Knox announced additional dues would also add to the balance.

Bob Burnett recommended that the club emergency fund be raised to $40 from the present $20; a figure of $30 was finally agreed upon. Orion Knox added that an additional expense in the fall would be the new member recruitment campaign--$10 was alotted for this purpose. Orion Knox instructed Carol Russell to make a new membership list including paid members, officers, dates of meetings and dates of conventions, copies of which are to be sent to the TSA secretary and the NSS.

The budget arrived at by the council is as follows:

$244 - present bank balance	$10.00 posters etc. for fall
$30 - AMCS owes	$30.00 Emergency Fund
$16 - Speleosupply	$10.00 Carbide
	$45.50 Turner
	$15.00 TSS
$290 IN	$115.00 Rope
(+ dues yet to come in)	$225.50
	$27.00 Turner (alottment form fall sem.)
	$40.00 Bills
	$292.50 OUT

FROM THE PRESIDENT

The new year has rolled in with what promises to be another very active season of caving for U.T.G. Mexico, which has been the center of interest for the past few years, still remains our most promising area of exploration; although Texas caves have received a good bit of attention in the past few months.

Politically, U.T.G. has alligned itself once again with the liberal side of the TSA (Texas Speleological Association) and is more or less leading the fight to keep representation equal for the non-N.S.S. clubs as well as the N.S.S. Grottos.

Activity wise the U.T.G. has in the past and is now, leading the other groups in the region. This can be attributed to a number of reasons. The history of the club has been that of an active group, and once this was established , the succeeding members have followed the example. Within our membership there has been in the past and still is, a small stable hard core, that has been around for many years. They seem to act as a catalyst around which the new members can form from year to year. This new membership also brings into the club new ideas and since they are not spoiled by the large caves they tend to get the much needed work done in the smaller caves near Austin. Another factor which gives our club an advantage is communication among the members. There is almost constant intercommunication from seven in the morning untill one or two atnight everyday. This has a tendency to stimulate action at a rapid pace. The variety of interest and studies within the club also adds to the variety of work accomplished in relation to the variety of caving done. One of the greatest assets that U.T.G. has is the wide range of facilities and knowledge at the University. The last advantage which I will mention although one of the most important is the extra time which students have off during various holidays, making it possible to spend considerable time caving in distant areas.

The one outstanding problem we seem to have with in the club is the lack of communication between old and new members. (other than the perpetual lack of personal funds) There are usually one or two who join the CHUCKWAGON GANG, but most of the others only hear what is going on at the meetings which is unfortunate, since almost everything is planned in the Union. One solution could be the encouragement of more new people to join us at noon. A drawback here being that the Chuckwagon management's wrath would probally befall us if any more people tried to get around the table.

Although we do have other problems from time to time we still remain the center of caving within the state and the Southwest. It should be our goal to maintain this position and to better it.

ORION KNOX

(SPELLING AS PER ON THE ORIGINAL MANUSCRIPT BY O.K.)

GENERAL GRADOUIX

Elections! Budgets! Spring vacation trips! World's deepest cave! Mid-term exams... (humm, perhaps some things are better left unsaid.) The last few weeks has seen the quietest flurry of activity in local history. With the recent elections we have entered the second phase of the San Hedwickian Dynasty. With Cap. O. Knox's firm hand on the tiller, the ship of state surely navigate the troubled waters of speleo-politics. No doubt he will have able assistance from his first mate, Robert Burnett (I wonder who that is...I guess I'll ask Roonie.) Other officers are: Tom Tracy, navigator; James Strickland, quartermaster; Carol Russell, keeper of the ship's log; Marsha Meredith, comptroler; Meredyth Turner, K.P. and Blackjack Pershing, U.S. Army, rtd.

The budget was passed with aminimum of debate due to the regretable absence of the club theoretician, A. R. Smith.

The vernal equinox has come and gone yet another year and the Spring vacation is upon us. Visions of Mexican caves dance before the eyes of the semi-sonombulent, spring stricken membership. Huautla, the secret caving province of the AMCS, the Mecca of mexican cavers, the home of the Holy Carbide Lamp beckons teasingly. See Oaxaca First! (Oops, did I give it away?)

After all the hell that has been raised about C.I.A. sponsership of student groups, some of our members have raised the obvious question. (Since the question is obvious, there is no need to repeat it here.) Well, folks, calm yourselves. The suspicious character lurking on the fringes of The Group is indeed an agent, but only one from Plymouth Cordage Co.

I'm sure that all who knew him will be happy to hear that Humphrey has made the journey to Germany successfully and is now residing in Nuremburg. He has even found a friend already. They are inseperable. Susan Emory accompanied him. Hi there, Sue!

Another prominant feature of Spring is the annual T.S.A. Region Convention. The upcoming festivities and business meetings are to be held in Boerne (Cascade Caverns) on the eighth and ninth of April. This promises to be a real treat for those of us with a taste for cabrito and the jugular vein. Carrying the Word and spreading the radience of the Holy Carbide Lamp for good old U.T.G. will be Dick Smith, Merydith Turner and anyone else who cares to go. Good luck, Ollene...

OFFICIAL HONEST FOR REAL TREASURER'S REPORT
by Marsha Meredith

WE'RE RICH!!!

(and that's a quote!)

THE CAVER PHILOSOPHY

Humm...yes...quite so. Philosophy, eh? Well, why not? Taking a cue from John Economidy (heroic leader of the local revolution for conformity and mediocracy) I believe that I'll entitle this article:

COLOR YOUR PROBLEMS CAVER

In the past, much ado has been made about 'Happiness'. ie. Happiness is a warm puppy; a warm caver, ect. It is high time unhappiness was given equal consideration. The following is a drop in that bucket.

UNHAPPINESS IS:

Getting your shirt caught in the break-bars.
Getting anything else caught in the break-bars.
Not having breakbars to get things caught in.
A cold sleeping bag.
A wet sleeping bag.
Eating ranch style beans in Mexico.
Eating ranch style beans in the Chuckwagon.
Eating ranch style beans.
Eating in the Chuckwagon.
Missing the Wednesday night meeting.
Being late for the Wednesday night meeting.
Going to the Wednesday night meeting.
Being the only guy on your block without Jumars.
Being the only guy on your block that's a caver.
Deciding your seat sling is too tight - too late.
Trying to make sense out of the Caver Philosophy.

****

SHERRIF COWAN DOES HEREBY POINT OUT THAT:

Item one: All Able bodied men are required by law to carry rifles for protection against indians while shopping downtown in Austin, Texas. Violators of the afore mentioned law are subject to fine and/or imprisionment.

Item two: It is a misdemeanor, punishible by fine or confinement in the city jail, to drive any motor vehicle across Congress Avenue Bridge at speeds in access of Twenty (20) miles per hour without a red flag tied on the rear of said motor vehicle.

****

DEVIL'S SINKHOLE TRIP MARCH 4th & 5th

Saturday eventually about a dozen cars converged on the roadside park. After deciding that it was cold, some boy scouts proceeded to build a fire using time honored techniques; gasoline & a match. At some miserable hour after the sun was starting to awaken, a bunch of heros got up and left for the ranch before the appointed time to prove they knew where it was.

The road to the cave was as nasty as usual and every clearing beside the trail was occupied by a car whose owner had given up and started to walk. More than half the cavers walked.

It was a typical Sinkhole visit. With Charlie and Susie absent, we missed out on the annual armadillo chase and kite flying contest. Roonie B. and Hugh Davis made up for it by entertaining everyone with a new dance step after the donut grease was passed around a little to vigorously. Roonie may make it to Huautla. Hugh hurts.

The Edrover did yeoman service as elevator operator. A very large number of people were lowered and lifted. One or two actually went caving. The bridge game moved from last year's gasoline lantern on the ground, to the relative sophistication of Sustare's Camper.

Tom Meador brought his jeep, and the contest jigsaw puzzle of a tent anyone ever saw. Two cars full showed from Houston and the cavers were properly appalled at the UT types.

Speleologically, the most important event of the entire trip of course was a scientific experiment I carried out; I threw rocks at Marcia. That is, I was.... oh well, sorry Marcia.

As far as we can tell, almost everybody that went out there got back. If you notice anyone missing please notify OMW so he can call up his UT Lawn Tennis, Armidillo Chasing and Rescue Division.

TRIP REPORT BY... DENNIS BARRETT
TYPED BY... j. sus*aRe

BUSTAMENTE TRIP

Persons: Bob Richardson, Harold Henderson, Dan Scurlock, Jan Houston, Denton and Mary Belk. January 27th - January 29th

Bob and I decided to try our hand at getting lost, so with four victims, we embarked for Mexico. First delay, arriving at the border, no one had remembered the car title. Remaining cool, calm, and collected (sure sounds like a commercial); Denton convinced our wary officials it actually was his VW bus and away we went, with great joy and expectations. After missing the turn off we arrived in Bustamente only to misplace Federal Park. We spent all of Saturday and Sunday morning in the cave. We suceeded in avoiding the Passa del Mueta only to get lost in the Hall of Giants. After circling several times and with the aid of our much beloved, super caving tool, the compass, proceeded onward, finally stopping at the Flowstone River. However, we did manage to get our by now terrified friends out of the cave without getting too lost.

Photographs were made in the first room, Biologicial collections were taken from several pools, and a survey of surrounding cactus was noted by our fellow eggplant, Surlock, who photosynthesized all the way back to Austin.

TRIP REPORT:
Persons: Chas. Loving, James Strickland, Barb. Strickland, Cindy Baird, Carol Westmorland (she wasn't a Bill yet), Suzy Loving, Bill Russell, Fed Hasse, Dr. Amos Eddy, Jim Duke, John Fish, Gina Carterduke, The Florence FLASH, George, and Taco.
Place:

INNER SPACE. The purpose of the trip was to test equipment for the then upcoming trip to measure breathing in Busta. The outcome of the trip was that we decided to measure the breathing of Blowing Cave near Round Rock. The reason for this was that the setting up of all the equipment is tedious and it must be calibrated.

Nothing was found out; except that we have to be very careful with the equipment. And it gives us interesting data that we can't do anything with. We got laong very well with the cave owner or leader and gave him some interesting facts as to temperature differences in the cave. Which we forgot to write down and can't remember. It was interesting however. One of these days we plan to go back.

At a planning meeting a few weeks after the trip. It was decided to let Tom White hepl in getting some "Hot wire Anemometers" and since then nothing more has been said. John Fish is the titular head of the project and is too busy to work on it. Ed Alexander has some sort of remote connection and he to is busy with other things. Jim Duke who thought it all up is hidden somewhere in the dark reaches of his thesis and C. Loving who doesn't know anything about anything thta has to do with numbers is making lame excuses.

As for the females on the trip no one knows what happened to them except Carol. She got married to Bill Russell and that in its self is some sort of significant milestone. Now she has to feed him.

Sometime in the near future there will be more on this great project.....

TRIP REPORT
Persons: Various. T for Texas, Red Beard, SU SU, The Peseado, and some new female with blond hair who is the replacement for the one lost to Benny.
PLACE: INDIAN CREEK

More mapping was done in that wonderous cave that is like so many caves we know, unfinished.

NOTE:
The map of CASCADE which was started over a year ago and which the crew swore would be finished in a few weeks is complete or near complete.

Cave Trip
BY: HOUSTON GROTTO
CAVE: Loving's house. aEd Gormons.
Very wet trip. Done by such ex TU people as the Mike Collins

CAVE TRIP
HABY"S BAT CAVE.
People, The BLUMS, S. Loving, ED ALEX, Joe Sumbera (sombrero)
Very dirty filthy cave. Blum tied off on a spike and a nail and went by by down. That is after the rancher shot a four foot rattler that was lining in the Ent.

"FROM THE MUTHA NEST"

MORE TRIPS:::::::
People, Jerry Browdeaux (Broadus) Donald Erieson, Jan Houston, and Orion Knox.
Place; Medina Co.
Cave. Davenport, which belongs to the Mother in Law
TRIP. Sat 18 Mar. 1967
Left Austin, stopped in San Antonio, talked to Bunny Bundrent Arrived in Hondo in the afternoon. Headed toward Bandera looking for the turn off. Arrived in Bandera, turned around, drove back toward Hondo looking for the turn off. Found the Turn Off. Drove down the turn off, gravel road?? Got to a ranch and asked the owner if we could see his cave. He said he wasn't the owner but his Mother in Law was, she lived up the road.

Turned around, drove up the road to the other ranch. Asked the man at the door if he owned the cave? He said his mother did. Finally get to the cave. Spent four hours in it. Mapped 400 to 500 feet or there abouts. The bats weren't home yet so it wasn't too unpleasant. Nothing exciting happened. Didn't meet the Mother in Law or the Mother.

People, Orion, And Jan Houston
Place, Near
Cave, Deaddog
TRIP, The day of the IMG BRAWL
Purpose of the trip was to map the cave. Entered the cave and after four hours emerged having surveyed 89 feet. Took one hour to go 20 feet. Plan another trip back soon to finish mapping.
Jan said"hi" to some kids who ran away, otherwise nothing exciting happened.

People, Jim, Gina, Jan, Orion, (Hmmmmm!)
Place, South
CAve, N.B.C.
TRIP, Resurvey part of the cave. Jack Birch owner or opperator went along. Map area was the South Fault Zone. Spent seven hours in the cave and mapped 291 feet. It was mud crawl. Return trip planned. Went to Schamperuse to eat. Had Bar-B-Q beef, beans, potatoe salad, onions, pickles, rye bread, butter, water, and Lone Star Dark. Gina didn't eat any pickles, Jan didn't eat any butter. Nothing exciting happened.

AS REPORTED TO SPECIAL REPORTER OMW BY ORION..

" THIS IS DEVILS SINK HOLE, A YAWNING
PIT ON THE DESOLATE WINDSWEPT PLAINS OF
THE EDWARDS PLATEAU WHERE MOTHER EARTH
SWALLOWED A CHUNK OF THE SURFACE AND
EXPOSED HER BOWELS TO THE SUN."..... yuk yuk

Daily John.

WITH PHOTOS OF BUSTAMANTE & INDIAN CREEK.

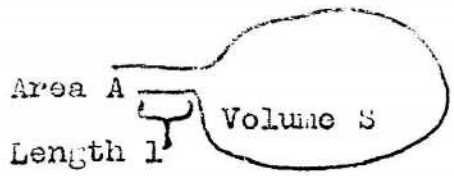
BREATHING PHENOMENA IN CAVES by William Russell

Perhaps the most interesting of the several types of air movement observed in caves are those that reverse themselves at regular intervals. These regular reversals of air flow, or breathing, are of several types, here grouped into daily reversals, seasonal reversals, short-period oscillations with periods less than 10 minutes, and long-period oscillations with periods greater than 10 minutes. There are also caves that experience irregular reversals of air flow, usually with periods of several hours or more. Velocities of these reversals are quite low, the maximum usually being only a few feet/second.

The most common cause of air movement in caves is difference in temperature between the outside air and the cave air. Caves tend to have a constant tempreature approximating the average temperature of the area. If a cave has two entrances at different elevations, the air will tend to blow out the lower entrance during the summer when the cave air is colder and heavier than outside air, and the flow will reverse during the winter. When the temperature outside the cave is near the yearly average, cave air will frequently be colder than air outside during the day and warmer than air outside during the night, causing a daily reversal. Blow Hole Cave in Edwards County, Texas frequently undergoes this type of reversal, with the morning change in direction occuring at about 10 o'clock due to inertia in the system.

Atmospheric pressure changes can also cause air flow, though most caves do not have enough volume for this flow to be apparent. As changes in atmospheric pressure greater than about 0.05 in. Hg/hour are unusual and this is a change of only 0.17%, a volume of greater than 7,000,000 cu. ft. is needed to produce a wind of 1ft./sec. through an entrance areaof 2 sq. ft. As most caves have less volume and larger entrances, this type of wind is seldom noticed. Such a flow will reverse with irregular periods with variations in atmospheric pressure. Blowing Cave in Williamson County, Texas, and Wind Cave in North Dakota are considered examples of such flow. The cave volume required to produce the observed air flow at the entrance to Wind Cave has been calculated to be 2,000,000 cu. ft., which represents a void 140 feet high with an area of 1 sq. mile, an unusual amount of solution.

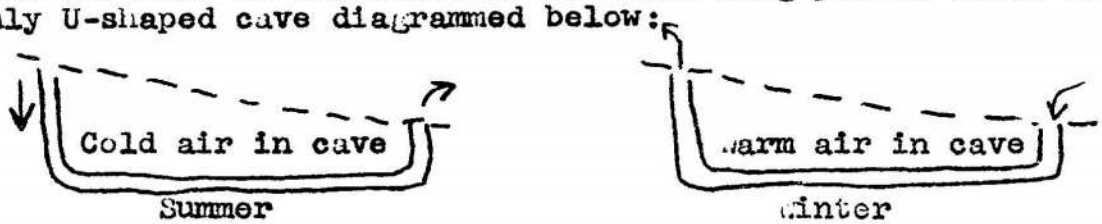
Though the winds previously discussed do reverse with time, they are not breathing phenomena proper, as the term is usually used to describe regular reversals with periods shorter than a day. The most common cause of these reversals is oscillatory movement in and out of the cave entrance, with the interior of the cave acting as a jug or bottle. A mechanical analogy of this type of oscillation is a sliding weight that when pushed will compress a spring. In the case of the cave, the air in the entrance represents the weight, and the interior of the cave acts as a spring. This process is powered by random pressure changes at the cave entrance caused by wind or other atmospheric disturbance, and is similar to the oscillations produced by blowing across the mouth of a bottle except that the dimensions of the cave are much larger and the frequencies much lower. Oscillations of this type were first described by Hemholtz and he determined the approximate frequency of oscillation as given by:



$$\text{Frequency} = \frac{\text{Velocity of sound}}{2\pi}\sqrt{\frac{A/l}{S}}$$

The frequency of oscillation is independent of the shape of the void as long as the void is reasonably compact. For several chambers connected through small openings, the resonant frequency is lower than if the model were concentrated in one chamber. Breathing Cave, in Virginia, with a period of about five minutes, has one of the longest periods for a cave of this type and is composed of several miles of passage and interconnected chambers.

Breathing caves are known with periods of up to 90 minutes and it is unlikely that caves exist with volumes large enough to produce Helmholtz-type oscillations of this frequency. A new model that might account for some of the features of these long-period caves is the roughly U-shaped cave diagrammed below:



This cave has two small vertical entrances at about the same elevation connected by a long passage. In summer the cave is filled with relatively cool air that will flow out the lower entrance. After flow starts, warm air enters the cave and is carried below the level of the lower entrance. The air flow now tends to reverse, and would be damped except that as air flow slows, the air entering the cave is cooled by the surrounding rock, and tends to increase the flow. This type of flow does not lend itself to mathematical analysis, but it appears that caves with the proper passage length, entrance elevation difference, and temperature difference will oscillate with a rather long period. It would be expected that this type of oscillation would operate only when the cave air was colder than outside air, for warm cave air would blow out the high entrance and cool air flowing in the lower entrance would only encourage the one-way movement. The U-shaped oscillations should have more air flowing out than into the lower entrance. Such oscillations have been observed at Inner Space Caverns near Georgetown, Texas, with the air blowing into an artificial core hole entrance for about 45 minutes, then outward for about 15 minutes. However, these oscillations occur both when the cave is relatively warm <u>and</u> relatively cool. Indian Creek Cave in Uvalde County, Texas, has a strong air flow into its lower entrance during the winter, and a weak flow outward during the summer, as would be expected in a non oscillating U-shaped cave.

The systematic study of breathing caves and cave atmosphere is barely underway, and present knowledge is limited by lack of accurate measurements. Instruments capable of recording for extended periods the temperature, pressure, wind speed and wind direction should be placed in caves having unusual patterns of air flow. The information gained should be of value to both the meteorologist and the caver.

NET MAKING

BY JAMES AND BARBARA HERSHBERGER & PHIL WINSBOROUGH

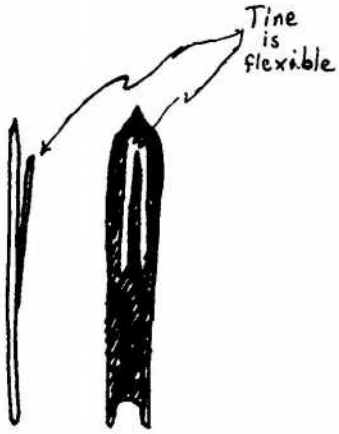
To make a net one needs a bobbin or needle, a net board, and some sort of cordage. The needle is flat (figure 1) with a tine that flexes, enabling it to catch the cord when winding. (figure 2) The cord is hooked over the tine and down under the lower ears and back to the tine, turning each time so that the bobbin-needle is filled evenly. When the needle is wound to capacity it is ready to be used tying the net.

The net board is a flat board less than 1/4 inch thick, smoothed, waxed and made to any width one might choose for the width of the net mesh. (figure 3)

To begin, wind the end of the cord from the needle around the net board twice and tie a bowline, giving a loop twice the size of the net board. (figure 4) Remove the board and attach a clamp (clothespin) two inches from the initial knot as shown in (figure 5). Anchoring the clothespin, hold the net board below the loop, bring the needle over and around, and catch a bight up through the first loop on the top edge of the net board as shown in (figure 6). Pinching the bight between thumb and forefinger to prevent slipping., make a large loop to the left, bring the needle over to the right, then around back of the bight and up through as shown in(figure 7). Pull the knot tight, making sure the bowline locks. The unlocked knot or "tragic" bowline (figure 8) will slip, and it must be locked (if it occurs) by pulling up and jerking the needle hard. Slip the net board out as in (figure 9) and substitute a hook for the clasp. Secure the hook; repeat the procedure of catching the bight over the top of the board and tying the knot. (see figures 7 and 10). This process is continued until twice the number of knots are formed as one wants loops in the width of the net. (This must be an even number, see example in figure 11). The hook is then removed and the net spread as in (figure 12) The loops, A B C D, are caught on the hook as in (figure 13), the board is held in place and the knots are tied around the board as before except that the loops are held on the board until a whole row is finished. (figure 14). Remove the board and rotate the hook as in figure 15 so that the starting point of the next row is on the left. Repeat, making rows until the net is the correct shape and size. Remember, as the net is stretched from one elongation to the other the dimensions change radically. Study a small piece of netting and calculate the number of rows before starting. For instance, on a hammock the space between knots across the width runs between 1/4 and 1/2 inch and therefore the width in number of knots should be between 50 and 80 knots. This means a chain of 100 to 160 knots which stretch out to 200 to 320 inches.

Practice a lot using cheap cotton cord to get the hang of locking knots and making even sized loops. An experienced net maker can easily add to his net or repair it, even on the side since his loops are uniform throughout.

The student may wish to experiment with other knots since square knots areoften used on linen nets. Other knots are just variations on figure 7.



Needle or Bobbin

Figure 1

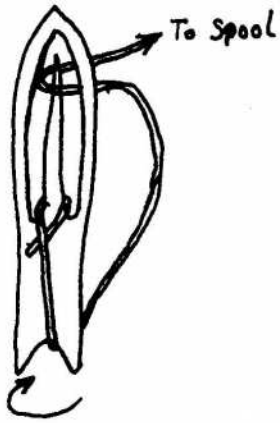
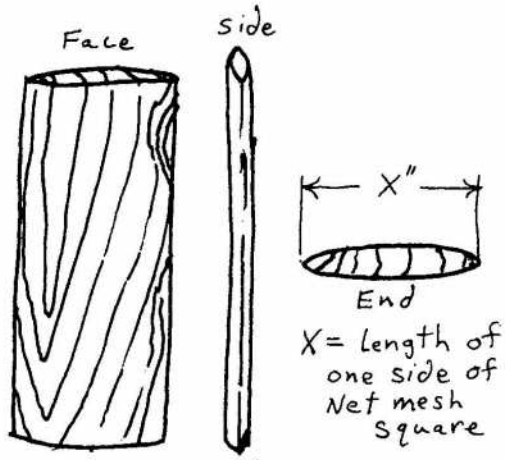


Figure 2



Net Board

Figure 3

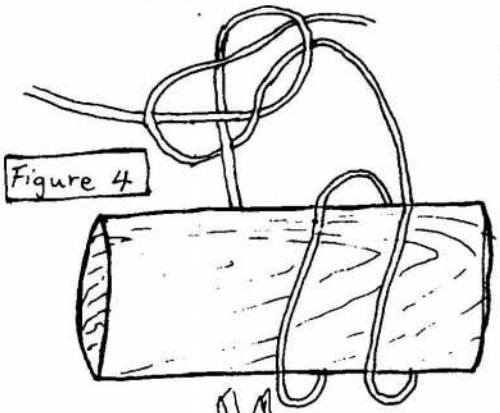
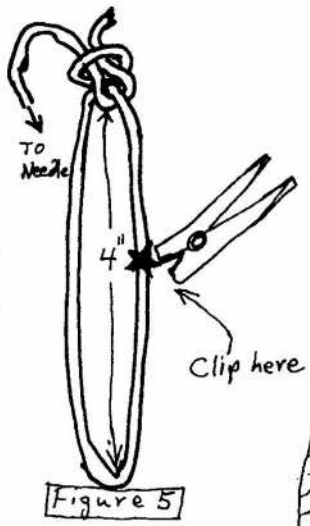


Figure 4



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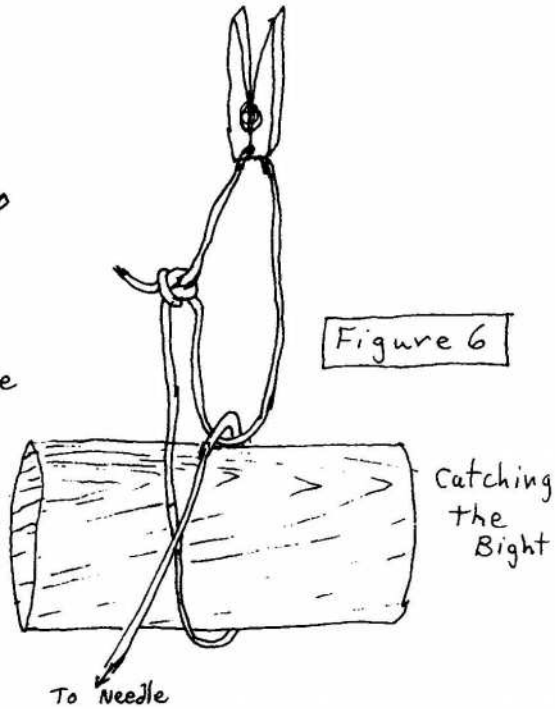

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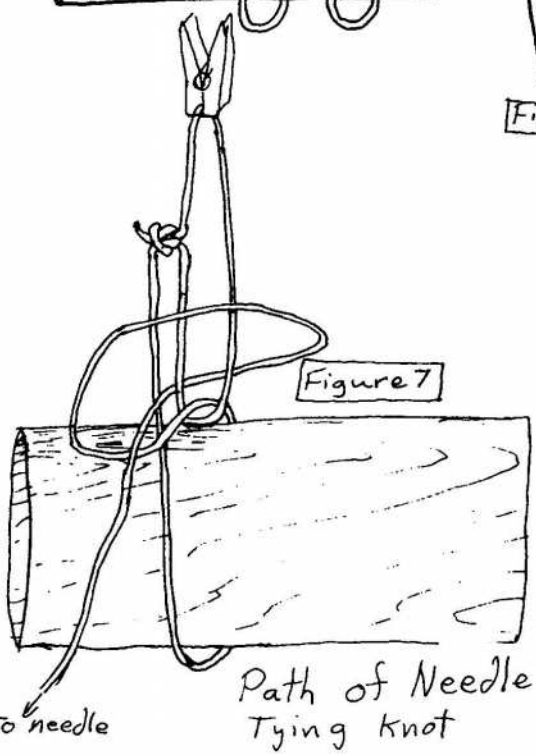
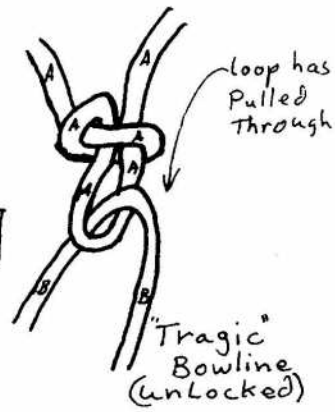


Figure 7

Path of Needle Tying Knot

Proper Bowline (Locked)

Figure 8



"Tragic" Bowline (unLocked)

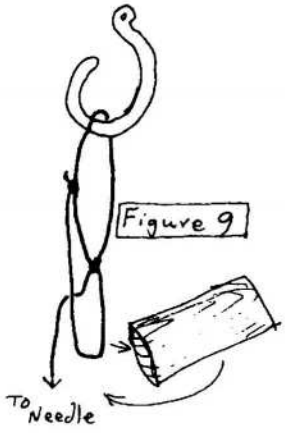


Figure 9

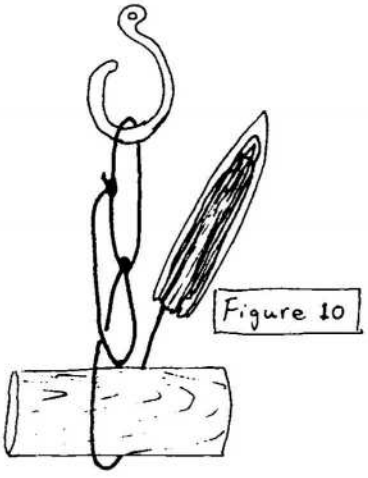
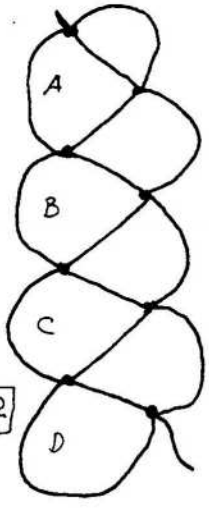


Figure 10

Figure 11



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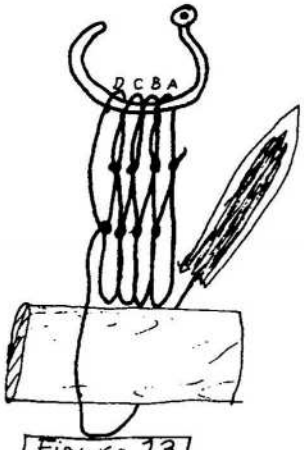


Figure 13

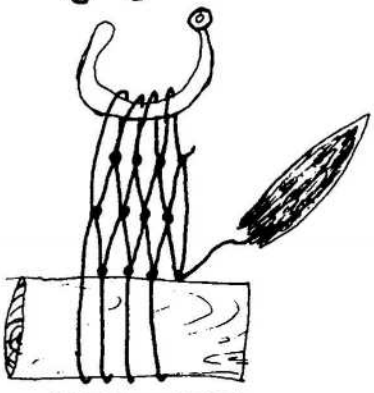


Figure 14

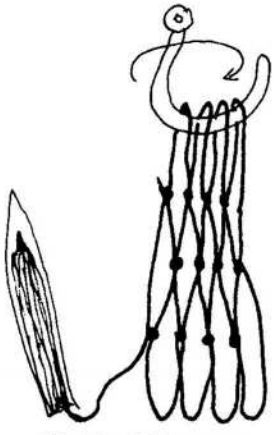
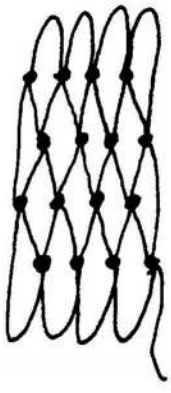


Figure 15



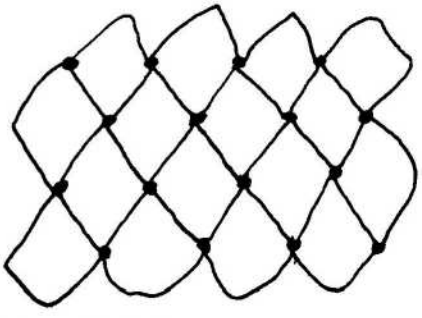
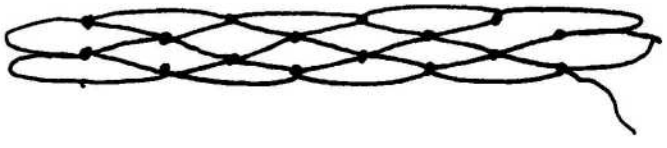
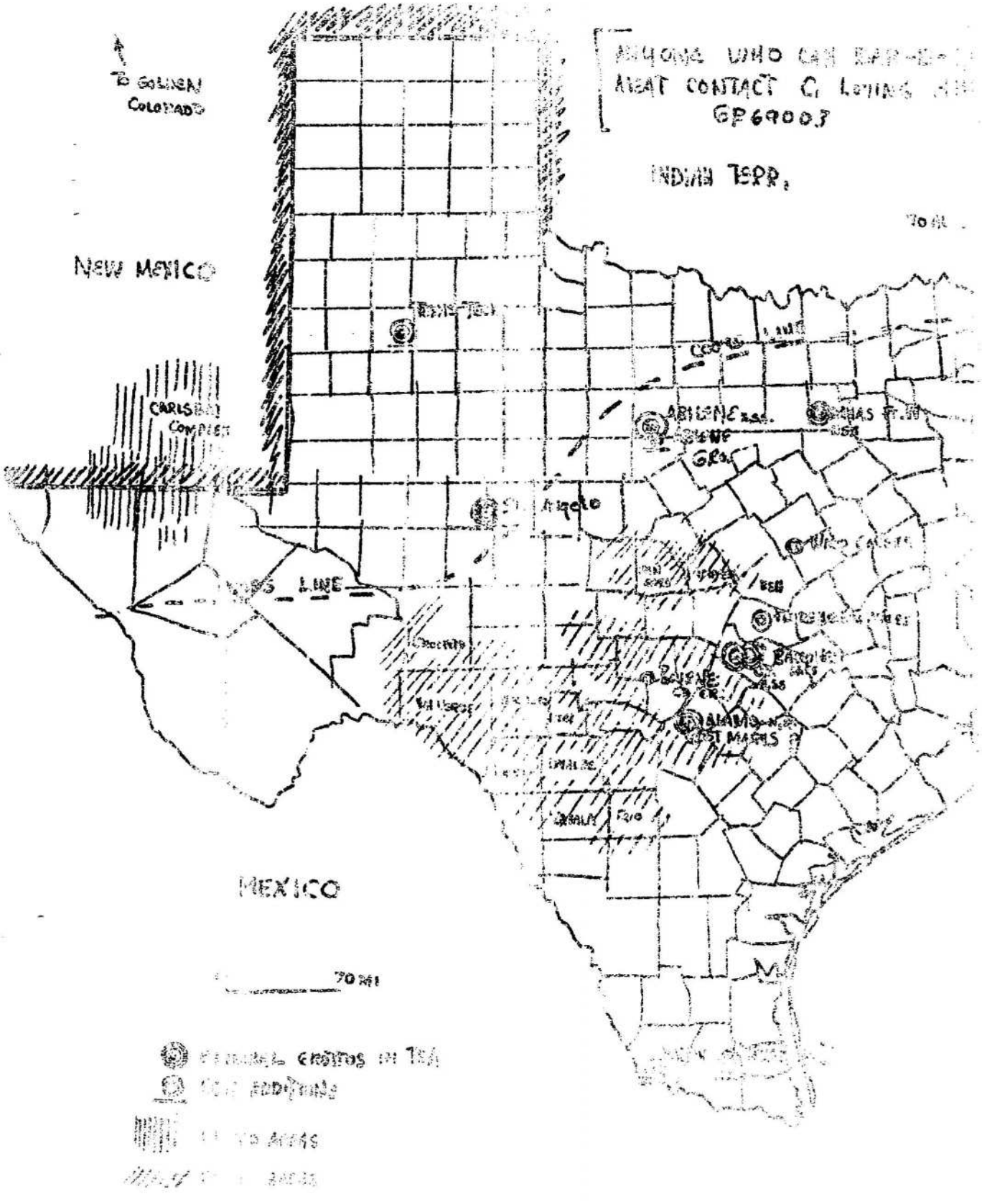


Figure 16




TO GOLDEN COLORADO
NEW MEXICO
INDIAN TERR.
CARLSBAD CAVERNS
ABILENE
MEXICO
70 MI

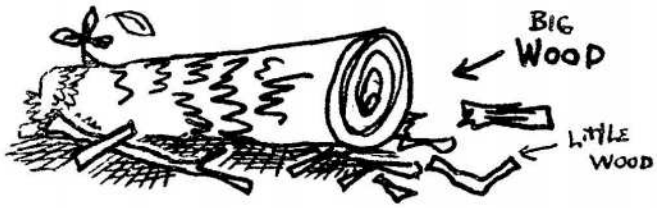
OLD MAN WISDOM

SGT. MAJOR HMS ROYAL COMMANDOS - IN YEMEN. YEMEN FIRST, CAVING FIRST
"CONFLICT OF INTEREST BREEDS CONFLICT"

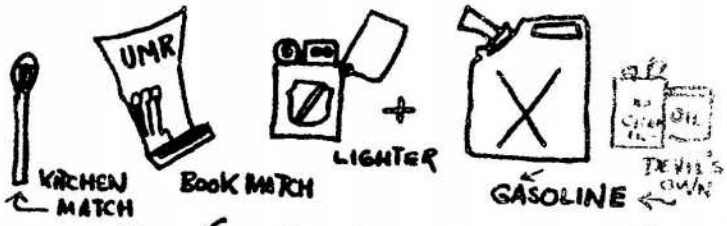
OLD MAN IS AFTER THE TRACKING WARRIOR TO THE YEMENI TRIBES DOWN IN THE EFFORT TO KEEP EGYPTS NASSAR OUT OF FRANCE.

AWHILE BACK OMW WAS TELLING YOU HOW TO BUILD FIRES AND COOK; WELL AS EVENTS OF THE DAY WILL HAVE IT, HE WAS SIDE TRACKED. SO IT WAS BROUGHT TO OUR ATTENTION THAT MAY BE WE OUGHT NOT TO LEAVE THE STONE HALF WAY TURNED.

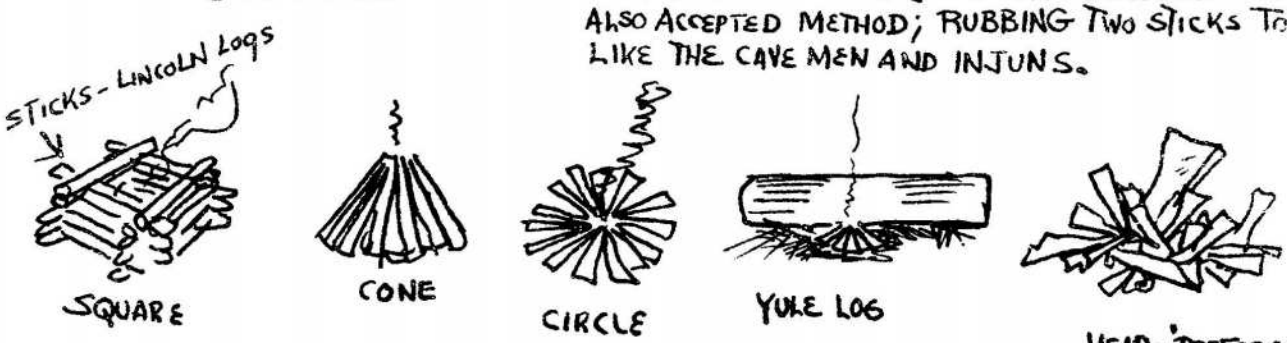
- CAMPOUT COOKING - THINGS NEEDED TO DO THIS AND DO IT PROPERLY AND RIGHT.



WOOD IS NICE TO HAVE

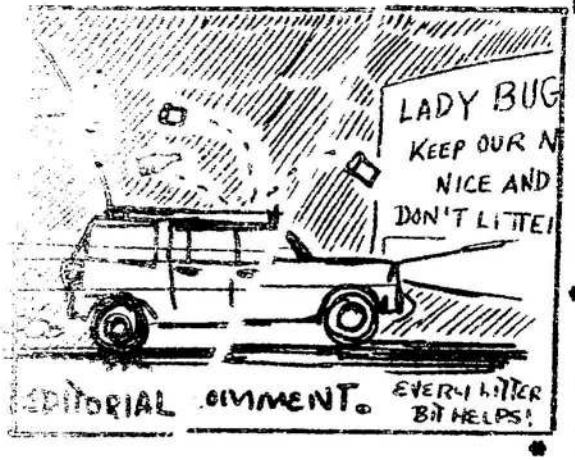


METHOD OF LIGHTING (IGNETION.. IGNITION .. IGNEITEON)
ALSO ACCEPTED METHOD; RUBBING TWO STICKS TOGETHER LIKE THE CAVE MEN AND INJUNS.



THEN YOU STACK THE WOOD

WITH STACK OF WOOD
GET KINDLING TO USE WITH IGNEIGHTER
USE ENGLISH ADJECTIVES - DAMN, H-ll - SOT, *@



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Please be it noted that with this issue, O.M.W. and some other parts of this publication will be printed by better means with thanks to T. for Texas, TERRIE RAINES. (Terry Baines?)

****

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PHIL'S SURPLUS SHOP "IF WE AINT GOT IT WE'LL GET IT"

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[illegible] money from the CIA? It is not known for sure. But there is a chance that civilian members of the club are really agents of the CIA. You can tell them by the clean cut fratty look. They also drive neat cars and always have lots an lots of money. They are also almost all Drama majors or Busin. Admin. majors working or their BA in Market Management. Certian members come under close observation by OMW. They are the officers of the club. IS PHIL WINSBORROUGH a spy for the CIA? IS JOHN FISH a plant? IS CHARLIE J... . ...

On the fourth of Feb. of the year of our Lord 1967 we all went to the Dunken Doughnut shop to eat doughnuts and also drink coffee. The lady said thta if we were good we could get seconds. We said we would but didn't get any seconds.

James Reddell is not gone. He is really a spy who with the help of A.R.Smith is working to undermine the study of caves in Mexico by looking for new wonders in the State of Tejas.

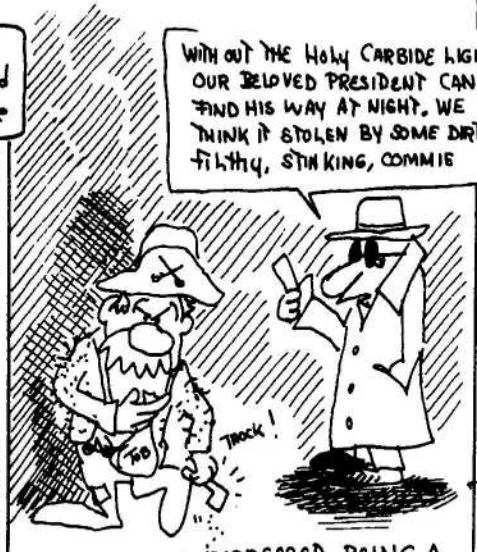
And then we all left and went to the picture show and saw the Red Dessert. All behaved and they were a good [illegible] and we all [illegible] the rabbits ears [illegible] and the Red Dessert [illegible]

OLD MAN WISDOM

VOL. 1 NUMBER SIX

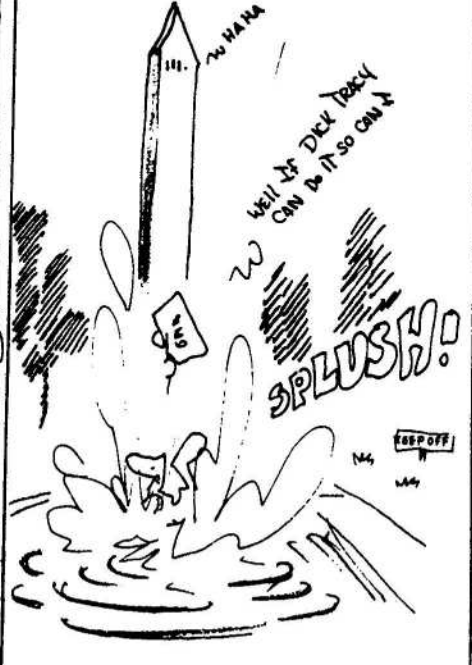
IN WHICH AND ADVENTURE IS UNDERTAKEN AND CONTINUED FOR SOMETIME

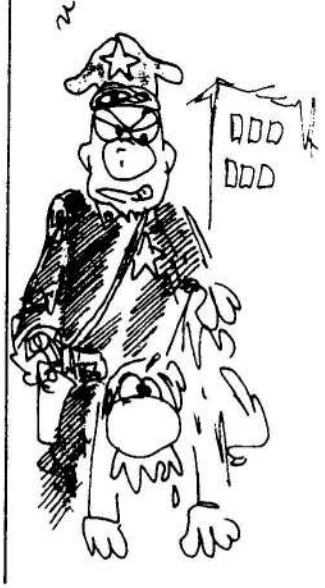
OUR STORY OPENS WITH A C.I.A. AGENT FILLING IN O.M.W. ON THE HAPPENING. THE HOLY CARBIDE LIGHT IS USED TO SAVE ELECTRICITY. IT COST THE GOVERNMENT $11,000,000.86 ON SALE AT NEWMAN MARQUIS.



O.M.W. IS VERY IMPRESSED, BEING A LIBERAL FEDERALIST. HE CONSENTS TO LOOK INTO THE MATTER. HE IS SPED ABOARD AIR FORCE 17 TO THE LAST SITE.

NOT BEING A MEMBER OF N.F.F. OR A HEROIC RESCUE SQUAD O.M.W. HAS TO JUMP ONTO THE MAIN MALL.





So AFTER 48 Hrs. IN THE D.C. CLINK O.M.W. gets out. The ONE who called HIM wouldn't go bail CAUSE it MIGHT DETER THE WAR EFFORT.
ABOUT TIME! YOU KNOW I NEED THAT LIGHT. DON'T TRACK MUD ON THE RUG. SPARROW HAWK MIGHT GET MAD
Here is where I Last seen it Five weeks AGO
LYNDI
PAY LOAN
COWBOY BOOTS
So INTO THE AIR CONDITIONING SYSTEM GOES O.M.W. following A VERY Cold, Cold, TRAIL. SOMEWHERE IN THE BOWELS OF THE EARTH THERE IS THE Holy CARBIDE LIGHT.
DAMN CRAWL WAY
EDITORS NOTE: FOR THE FIRST EPISODE OF THIS SERIES SEE THE MAY 1965 TEXAS CAVER IN WHICH WE LEFT OUR HEROES NURDOO + ZEPHLIN IN THE SAN MARCOS JAIL. FOR SNEAKING INTO WONDER CAVE
SEWER PIPES
AT THE END OF THE TUNNEL LURKS EVIL
EVIL
EVIL
LETS SEE
GROVER CLEVELA
MAD DEPT.
D.C. SPECULATION
AND WHAT IS THIS? NURDOO AND ZEPHLIN?
RUN, THE CAVE ELEPHANTS ARE COMING!
welcome DEWEY
DRAT
SWISH
CLOMP CLOOMP
PEANUT BREATH!
!!
GADS
EVIL
CONT'D....