Dayton Underground Grotto
1994 WORMFEST
Guidebook



Great Saltpetre Cave Preserve
Rockcastle Co. KY

We Cave Therefore We Are

ANDY NIEKAMP
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Letter from our Grotto Chair

Welcome one and all to the Third Annual Wormfest.! In the search for a location for this gala event we looked at many different locations. The Great Salt Peter Campground offered many features that catered to our needs. Thanx goes out to the Greater Cincinnati Grotto for their support.

This year marks a great improvement over previous Wormfests. I'm speaking of the effort that went into making this an event to remember. Many of you may not realize the planning that goes into an outing like this, but the Wormfest Committee does. They started meeting late last year, and have been planning every little detail since then. It's still not too late to put forth a little effort of your own! If you see something that needs done, or someone that needs help, give up a few minutes. Every little bit helps. Please help us to leave the GSP Campground looking like it did when we came in (or even Better!).

In closing I'd like to recognize and thank Scott Sweet and his Wormfest Committee. Great job everyone! I hope everyone here will have a wonderfully muddy weekend. Enjoy the Wormfeast, and may your tent be infested with a thousand worms!

Cave Softly,

Dan Flynn

A Few Words From The 1994 Wormfest Chairperson

Welcome to Dayton Undergrounds 3rd Annual Wormfest. We have been looking forward to this for a year and now its here. A special thanks to the Wormfest committee for the creativity and hard work you put into making this years preparations sometimes even fun. The biggest thanks go to our groto members whose experience and interests truly make DUG, THE CLUB THAT ROCKS! Build on your skills and interests, and have a good time. Cave safely and you'll cave some more!

Scott Sweet
Chairperson
Wormfest 94

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1994 Wormfest Guidebook
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Emergency Phone Numbers

Cave Rescue	800-674-2400
Police	606-256-2178
Sheriff	606-256-2031
Fire	606-256-2121
Ambulance	606-256-4923

Thanks!!....

To the Greater Cincinnati Grotto for allowing us to use
Great Saltpetre Cave Preserve for our 1994 Wormfest outing.

The cover photo was taken by Colin Gatland & shows Jo Ann Flynn admiring the sights deep in a Tennessee cave.

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1994 Wormfest Trip List

Cave:	Rated:	Type:
Sinks of the Roundstone	Easy	Horizontal
Great Saltpeter	Easy	Horizontal
John Coffey	Easy	Horizontal
Hail	Moderate	Horizontal
Goochland	Moderate/Wet	Horizontal
High Water	Moderate/Hard	Horiz/Vertical
Teamers	Easy/Kids	Horizontal
Mullen Springs	Easy/soaking	Horizontal
Crooked Creek Ice Cave	Moderate	Horizontal/Climbing
Sinks Pit	Hard	Vertical 120ft
Ridge Walking	Your Guess	Maybe Both

The following pages give a brief description of the trip and who will be leading the trip. The Cave Maps start on page15.

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Wormfest 94 Guided Cave Trips

Friday June 10

Mid to late afternoon

Find some Roundstone in Sinks of the Roundstone
Trip length: 2 - 3 hours
Rated: Easy, and very fun. Short crawls, climbs, mud slides, creek walks and more. One of the prettiest entrances in town.
Led by Linda Johnson and Jill Weller
6 to 10 pm

Tour the Great Salt Peter Cave
Trip length: 30 minutes to whatever
Rated: Street cloths easy - (dirty crawls optional) all ages can see historical artifacts, and other show cave era spaces and things.
See Scott Sweet or Registration table for access info

Saturday June 11
Morning

ALL SATURDAY MORING TRIPS ARE SCHEDULED TO DEPART AT 9:00
SEE SIGN IN SHEET FOR CHANGES

Who was John Coffey?
Trip length: 3 - 4 hours
Rated: Easy or harder if you want!
Led by Sheila ....

Hail, Hail, The Gangs All Here.
Trip length: Most all day. This unlimited number trip will divide into two groups and see different parts of the cave, one being more intense than the other.
Rated: Moderate to difficult
Led by Lou Simpson (Bart's Uncle) and Harry Goepel

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The Hoochman does Goochland.
Trip length: 3 - 5 hours
Rated: Wet and Wild. See the longest cave in Rockcastle.
Led by Cave Master Joe Windows

Can you make it through High Water?
Trip length: 3 to 4 hours
Rated: A heart pounder - not for the faint hearted, clumsy climber, or those with fear of heights! Some rope experience useful. All equipment will is supplied.
Led by Jim Odom

Teamers for kids 7 to 107
Trip length: 2 to 3 hours
Rated: Easy. A fun chance for the kids to learn about cave life, safety, and conservation - and see a neat saltpeter mine cave
Led by Pamela Garrett and Sandy Rice

Virgin?
Trip length: 3 - 5 hours
Rated: I actually said the V word. I better lighten up, Near V. No, no, no. I better just say Potential V. (You can't ask for a refund then.) Take a chance. Come Ridge Walk and see. We'll walk not far from camp. See some sinks. Feel some blow holes. Dig a little. Learn a lot! When you crawl in will you find true adventure?
Led by Ron Crawford, Chairman GCG

Mid Afternoon

Will you spring for Mullen Springs?
Trip length: 2 to 4 hours
Rated: Wet! Must know how to swim. Wet suits and tubes recommended.
Led by Andy Niekamp

Crooked Creek Ice Cave - lower levels
Trip length: 2 to 3 hours
Rated: Moderate climb downs, and ups, a great freatic tube squeeze, a mild (hee, hee) pit or pits, a nice 40 foot ledge crawl, and more.
Led by Scott Sweet

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SUNDAY

Bounce the SINKS OF THE ROUNDSTONE PIT
Trip lenth: 3 hours
Rated: 125 feet straight down. Experienced verticals only. Will be bounced.
Led by Colin Gatland

Ridge Walk follow up.
Trip length: 2 hours or more
Rated: Easy on the surface. Underground depends. See potential caves and maybe dig and crawl. You may find true adventure.
Led by Scott Sweet



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Here are a few interesting places to visit while in the area and basic info on the caves of Rockcastle Co.

Mullins Spring Cave Resurgence

Turn left from GSP onto Rt. 1004. Travel 1 1/2 miles and turm right at the 8 mile marker onto Crooked Creek Road. The large spring from an equally large cave makes a significant contribution to the spring fed Crooked Creek. On a hot day you will often find folks congregatong here to enjoy the cool air flowing out of this entrance. Water haulers also stop here and load their trucks to fill cisterns or water boxes of area residents.

Arthur Singleton's Cave Resurgence and the "Sinking" of Crooked Creek. Continue about 2 miles from Mullins Spring Cave on Crooked Creek Road. Shortly after crossing a short timber bridge at the "T" intersecton, park on the RH shoulder at the fork in the road. (Note. The RH fork is 4 wheel drive and reguires a fording of Crooked Creek. The LH fork continues up to Johnetta and Goochland. It is a narrow single lane road that may reguire backing up to a wide spot to allow an oncoming vehicle to pass.) Walk down an obvious path on the RH side to view the resurgence. Note the dry or low-flowing strem bed on the left. Walk back toward the car and down the RH fork of the road to the strem bed and turn left (upstream). Within 50 yards observe the "sinking area" on the LH side (depending on water levels). Continue upstream several hundred yards to another sink area. A keen eye will likely find coral fossils in the stream bed.

Mullins Station

Mullins Station was once a thriving community that flourished around limestone quarry and timber industry. This is a horizontal quarry where in a technique known as "room and piller" quarrying was used. A certain dimensional segment wuld be removed and a corresponding section left to support the ceiling. In more recent years the site was utilized as a coal tipple

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for area mines.

Directions: 3 miles from GSP. Turn left onto RT 1004 to the bottom of the hill and turn left onto Mullins Station Road. Follow the gravel /dirt road untill you cross a steel bridge with wooden planks over Roundstone Creek. The old quarry is 1/2 mile from the bridge on the RH side of the road. Recently the property has been posted, but casual visits seem to be tolerated. The "posting" may be towards those seeking a place to rappel which would be very hazardous due to the unstable, fractured rock. Across the creek and to the left are more entrances which are very much off limits. The Kentucky Powder Company uses these remote chambers for an industrial explosives factory.

HIKE THE HISTORICAL PRESERVE'S NEW SARA CORRIE TRAIL

It starts near the old ticket house at the entrance to GSP Cave. It travels about 1.5 miles passing near Bob Dobbs entrance and the fields not far from CCIC. The trail circles back to camp near the tire swing.

Geology Of The Cave Belt

The caves of Rockcastle County are found in the Newman Limestone of Mississippian age, which contain a unit also found in th Mammoth Cave region and other cavernous areas of the state. This member is the St. louis limestone which together with the Ste. Genevieve limestone from the basic rocks in which Rockcastle caverns development takes place. In the eastern portion of the county the escarpment is composed of the Lee conglomerate which froms most of the high ridges and cliffs. The Pennington formation is the top of the Newman and contains a few caves, Most of which tend to penetrate downward into more suitable limestone.

The rocks of the county are slightly tilted, dipping to the southest. As a result the major cave development is confined to a belt along the eastern and southeastern edge of the county where the Newman exposed as its greatest thickness. East of this belt the Newman is deeply buried with only the Pennington remaining exposed which contains numerous shale and clay beds,

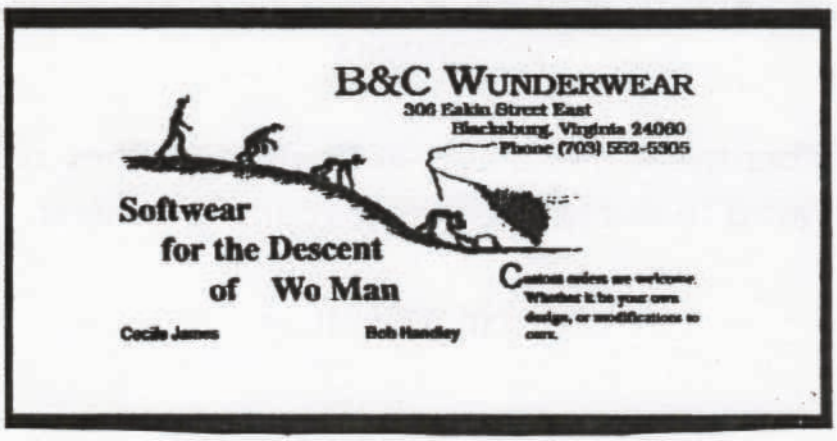
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effectively limiting cave development. To the west of the cave area the less residstant limestone of the Ste. Genevieve and St. Louis are more exposed and as a result most of the soulable rock has long since been eroded away. As one leaves the "cave belt" the caves becomes smaller in all dimensions until they can only rarely be found. Some of the knobs may cantain caves or pits as the Lee in that area forms a protective cap, peventing erosion of the underlying limestone.

Growth Of Speleothems

The caves of Rockcastle County are not known for their speleothems. To date no cave has been found with an abundance of formations, except for flowstone. Some of the caves that had formations now lack them due to wanton vandalism.

The term speleothems refer to "formation" which commonly means stalactite , stalagmite or column. These speleothem are formed by a chemical solution or by the solidfication of a fluid. Calcite is the main ingredient. Calcite is dissolved from the limestone by acid water percolationg downward. Upon reaching the interior of the cave the water deposits the calcite and holds it in a solution froming a speleothem, The calcite id precipitated due to the air being saturated with water vapor. The loss of carbon dioxide from dripping waster
makes the dissolved calcite preciptate out of the solution. The loss of carbon dioxide, rather than evaporation of water, is the cheif means by which calcite speleothems are formed. The size and the shape of the formation are related to the rate of the loss of the carbon dioxide and the rate of flow of the water.



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Please remember these merchants in the future. They have all been good to our grotto & this year's Wormfest.

THANK YOU !!

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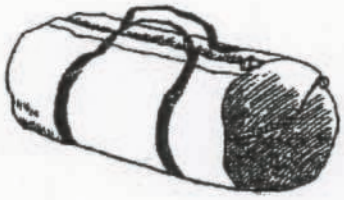
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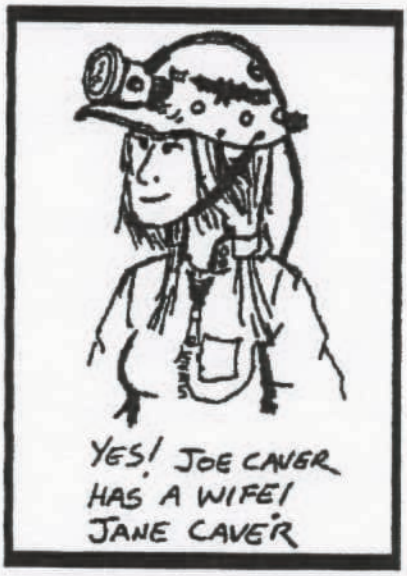
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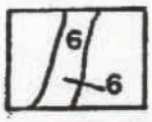


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CAVE MAP SYMBOLS



PASSAGE WITH CEILING HEIGHTS



CONJECTURED OR UNMAPPED PASSAGE
OR UNDERLYING PASSAGE



SLOPE OR DROP
(HATCHURES INDICATE DOWN SIDE)



SINK
DOME PIT



STREAM
(ARROW INDICATES DIRECTION)



FILL



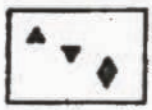
SAND OR SMALL GRAVEL



BREAKDOWN



LIMESTONE AROUND CROSS SECTION



STALAGMITE
STALACTITE
COLUMN



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DRIP LINE AT ENTRANCE



RIMSTONE DAMS



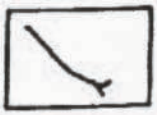
SOLID AREA

TOPOGRAPHIC
MAP SYMBOLS



CAVE

SPRING (UNENTERABLE)



SINKING STREAM



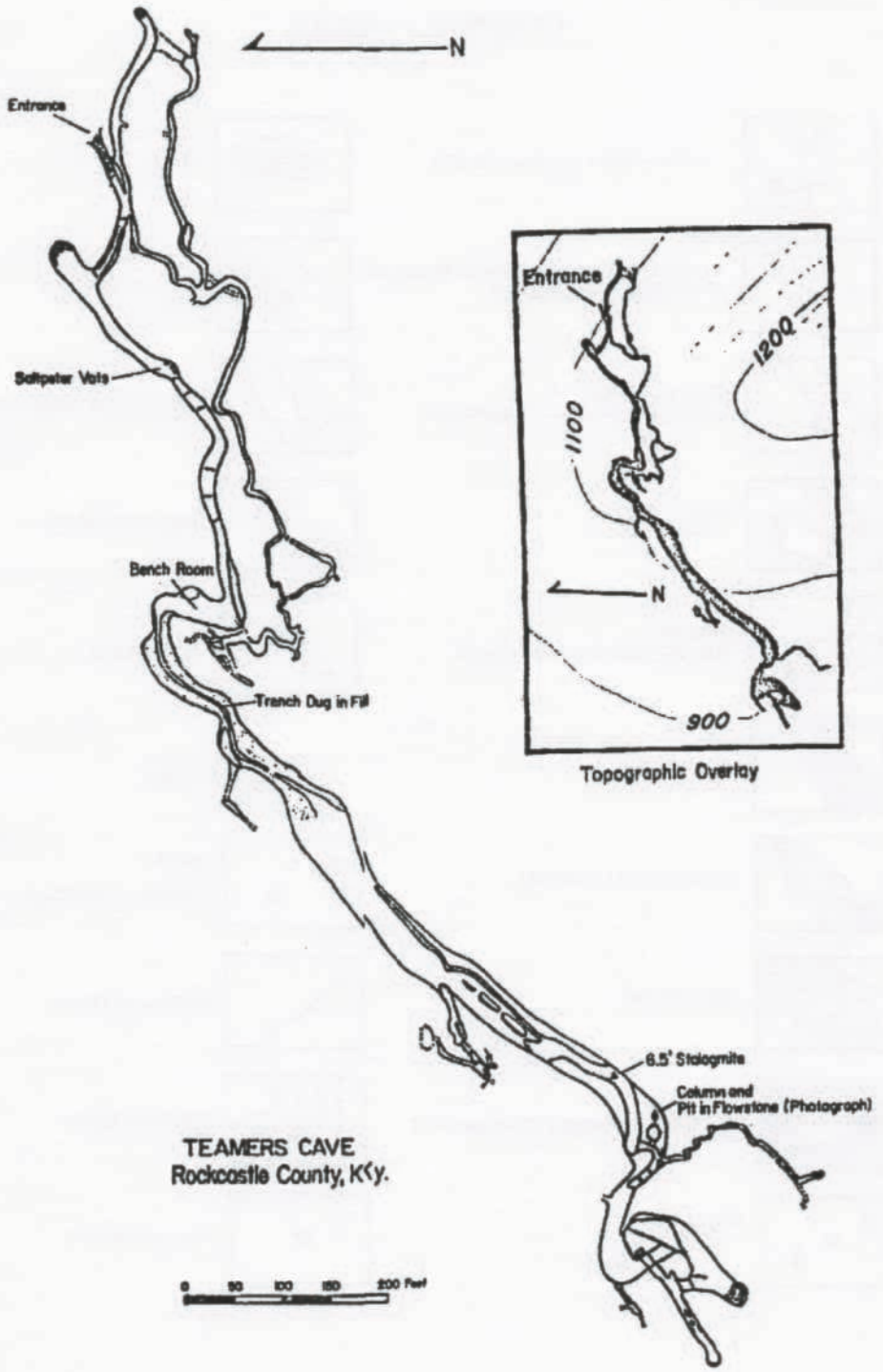
CONTOUR LINES



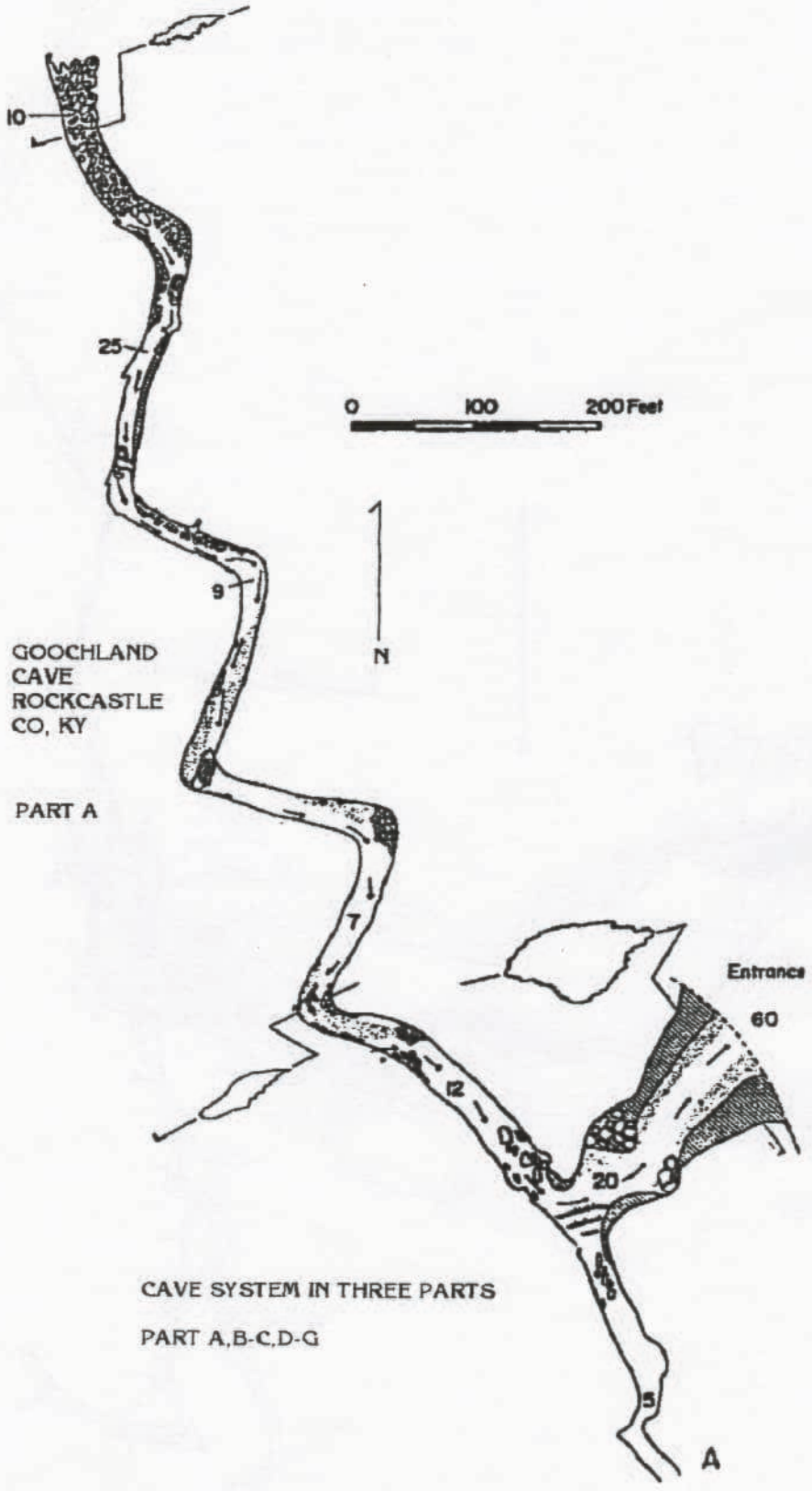
MINE ENTRANCE

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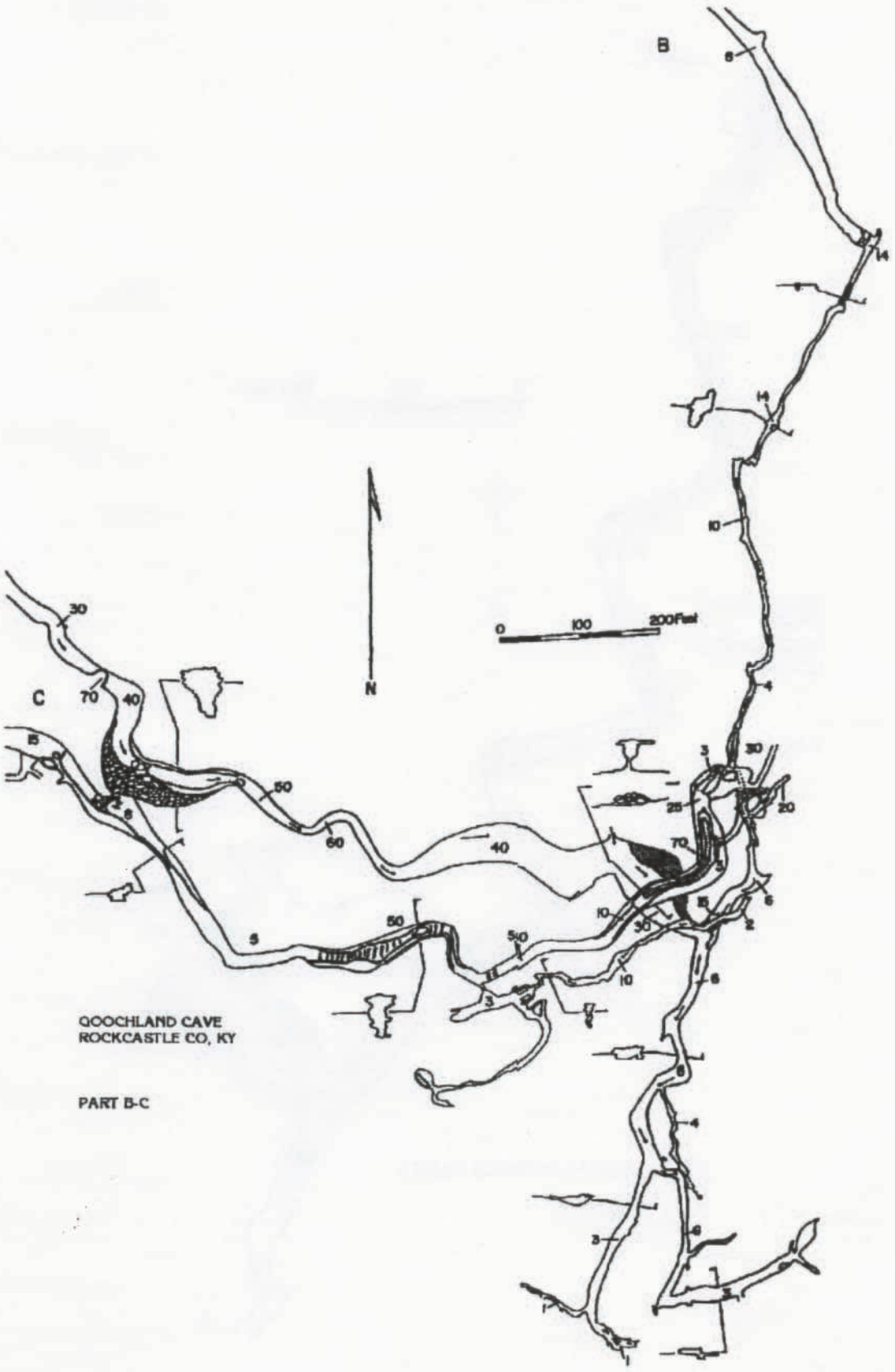
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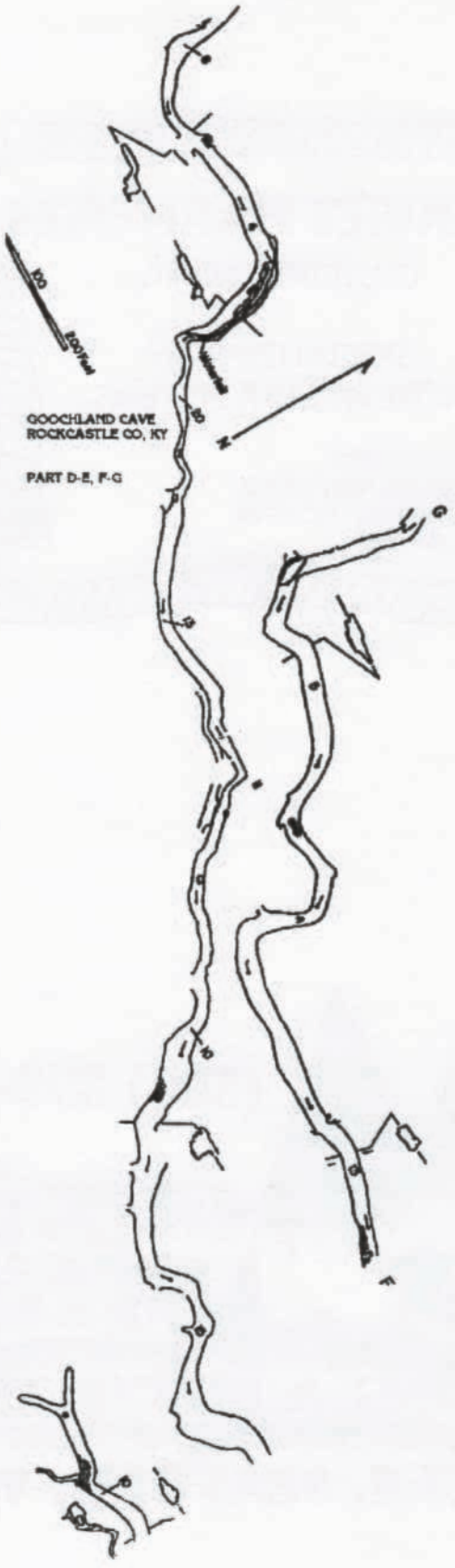
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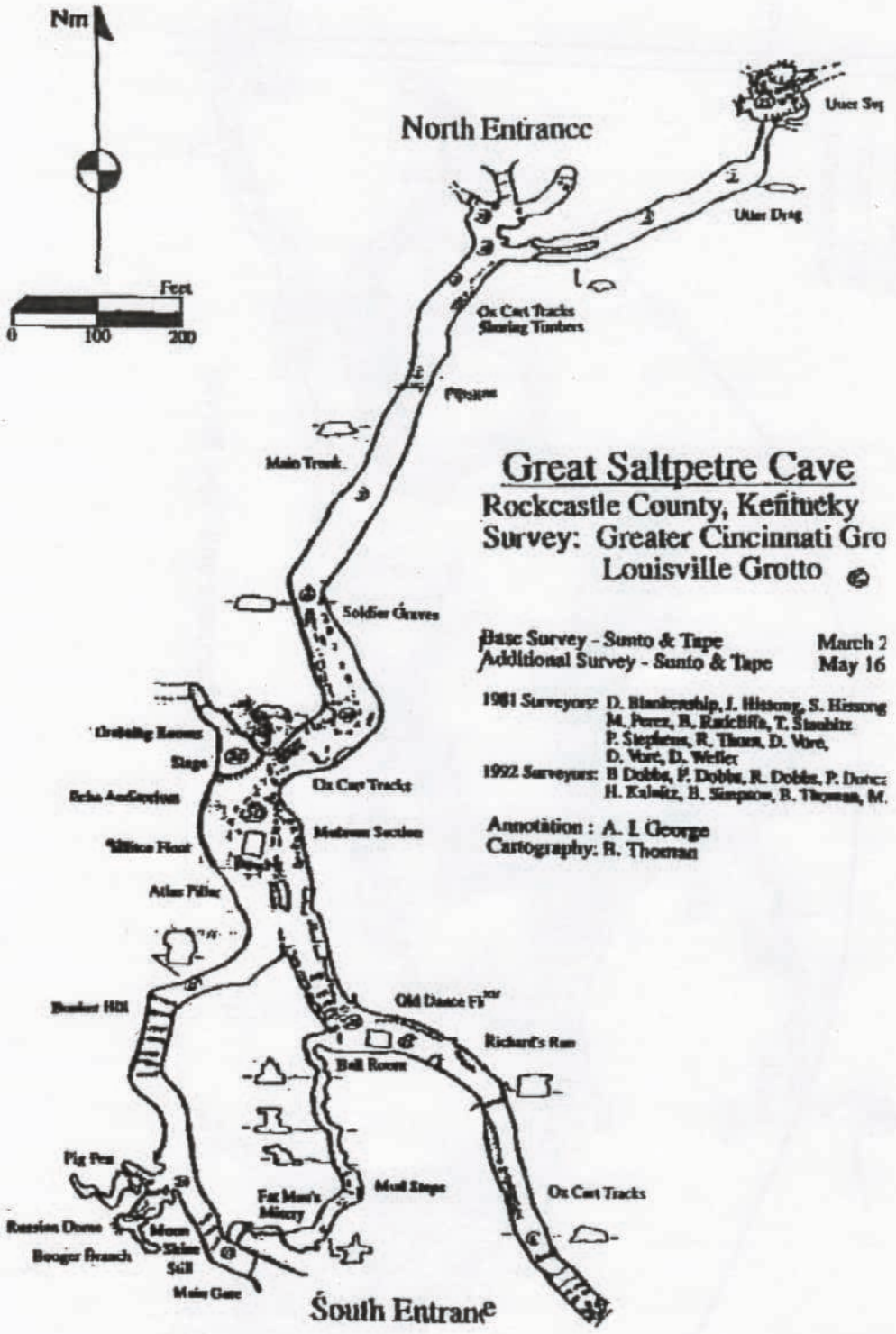
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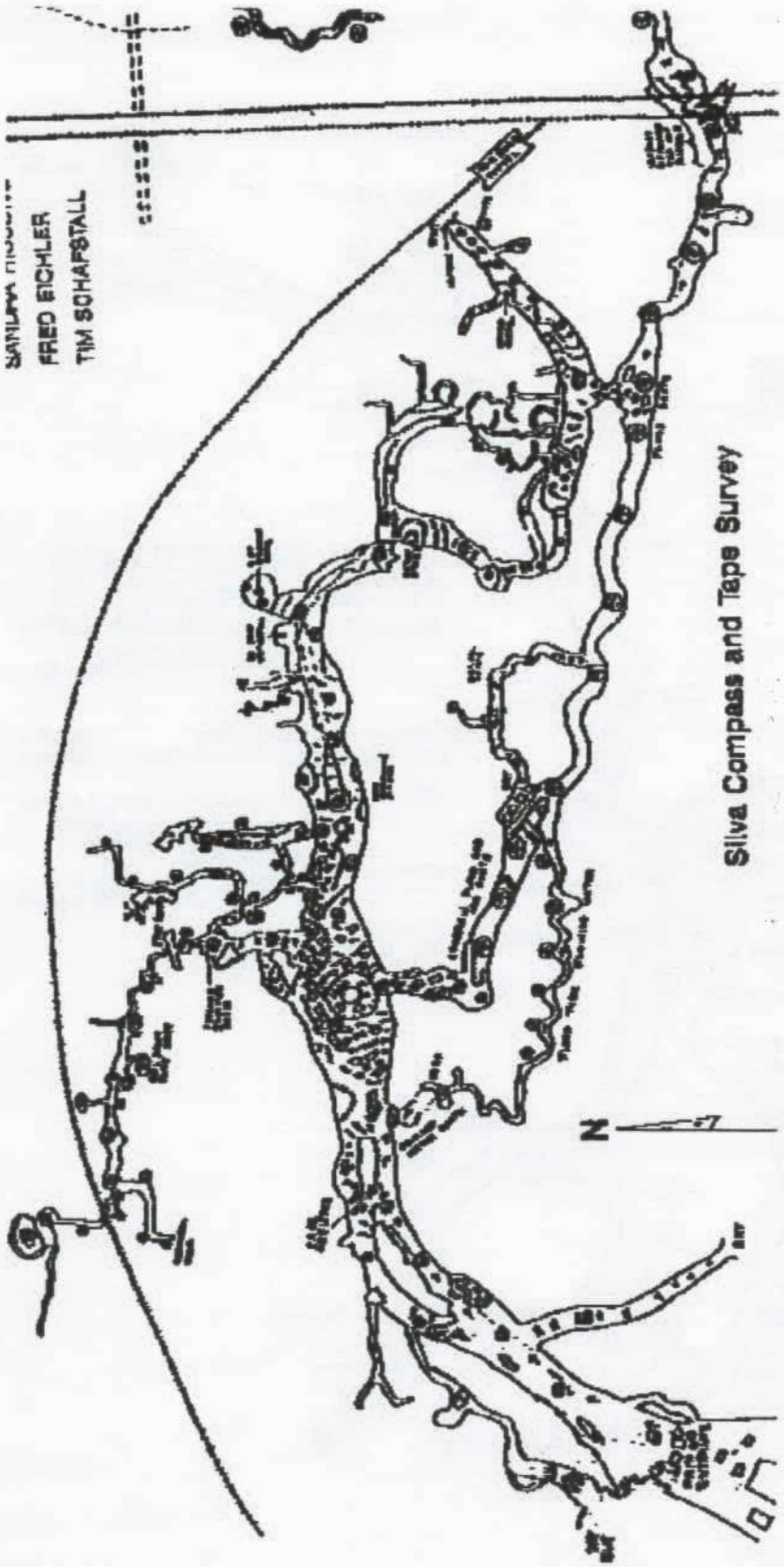
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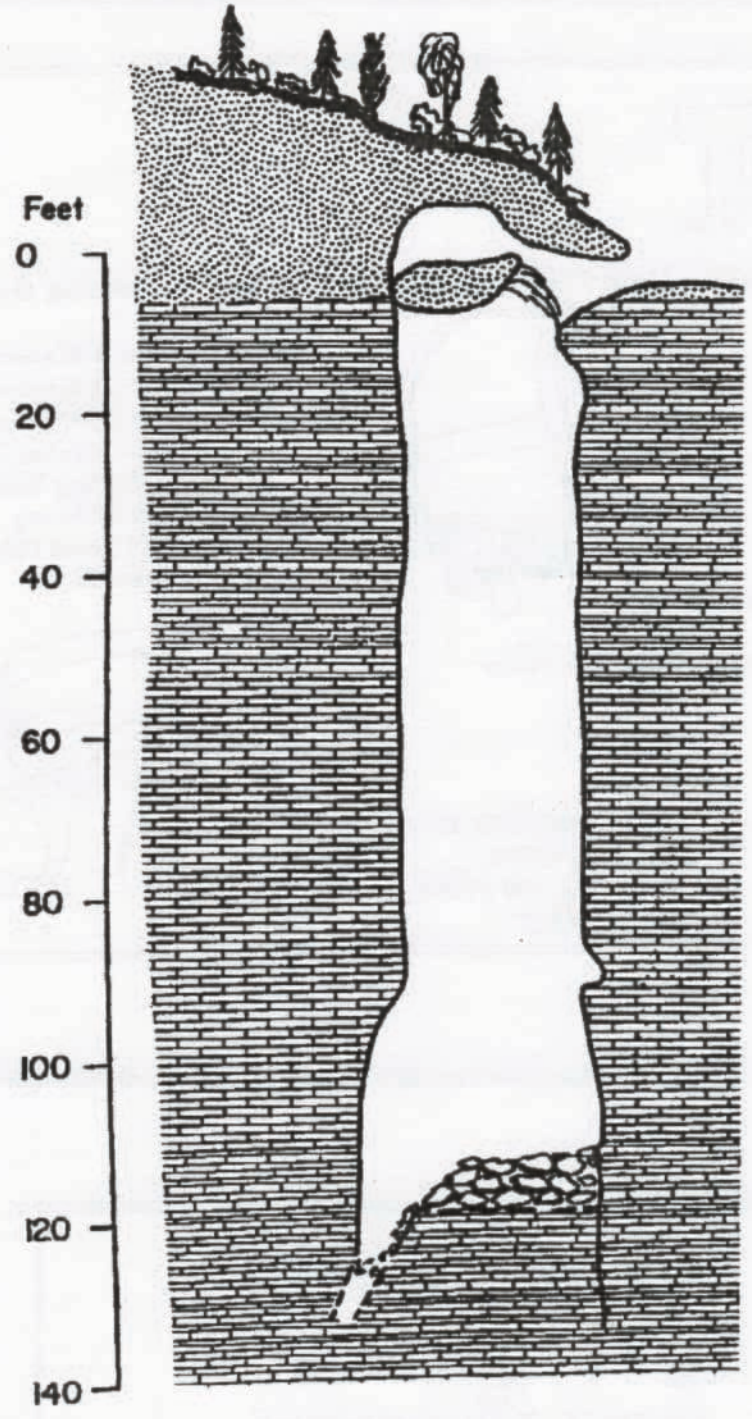
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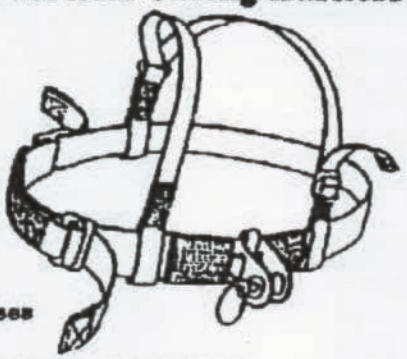
SINKS OF THE ROUNDSTONE PIT
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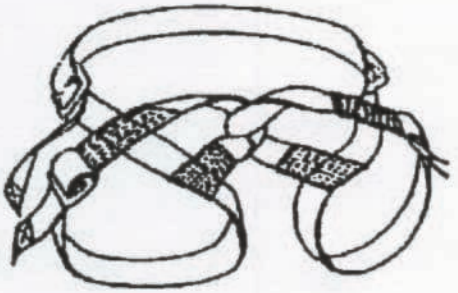
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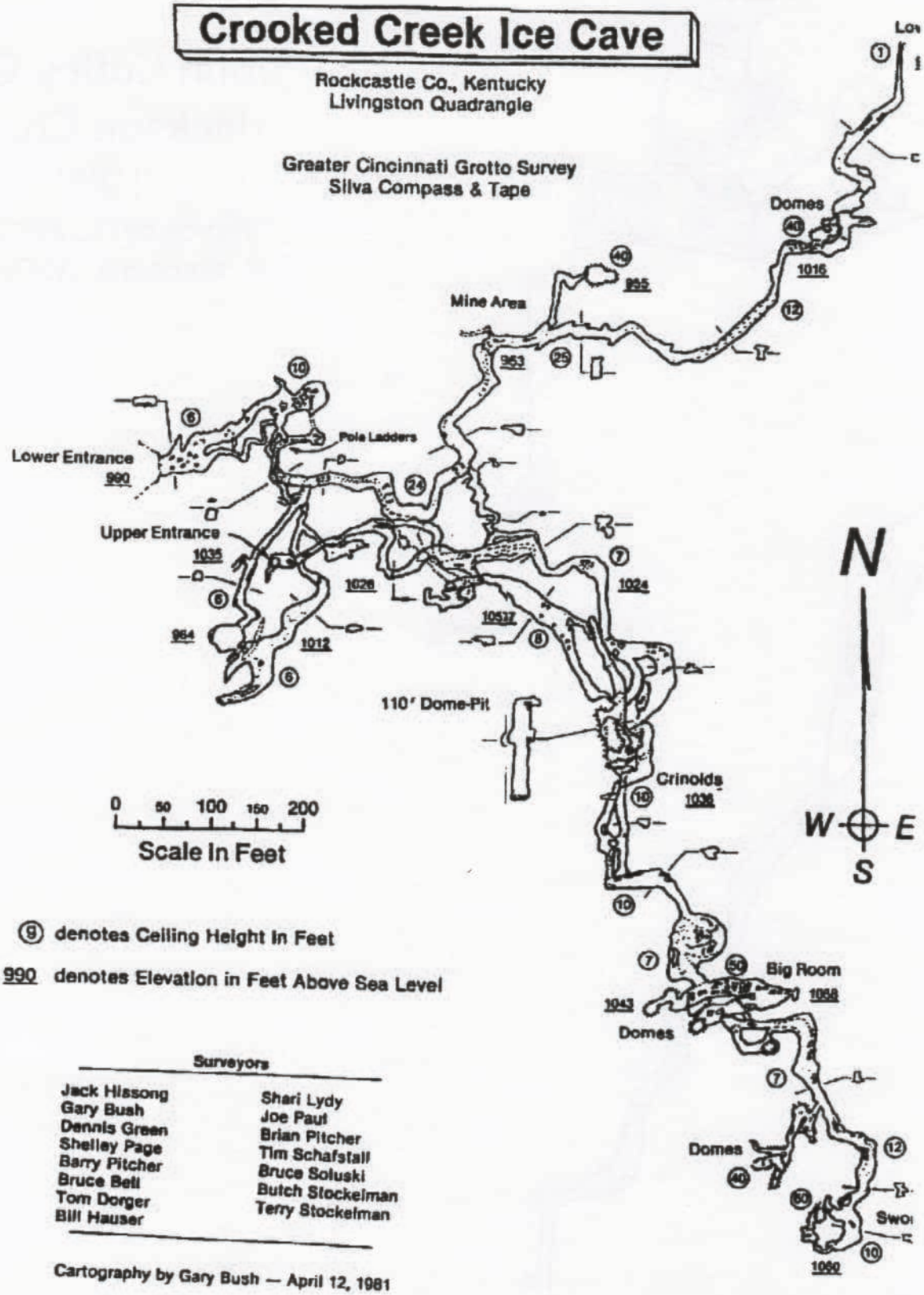
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Crooked Creek Ice Cave

Rockcastle Co., Kentucky
Livingston Quadrangle

Greater Cincinnati Grotto Survey
Silva Compass & Tape



(9) denotes Ceiling Height in Feet

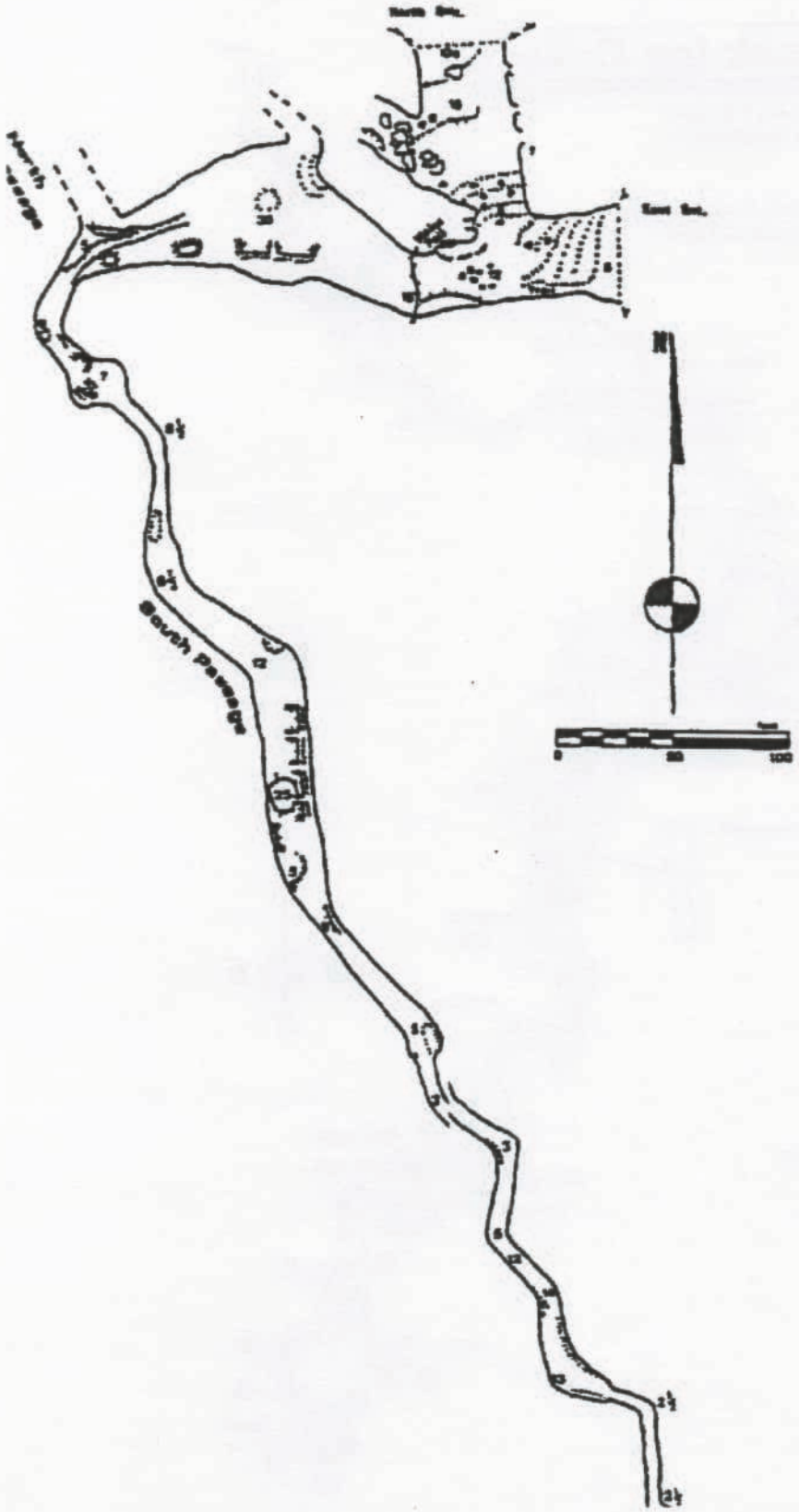
990 denotes Elevation in Feet Above Sea Level

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Cartography by Gary Bush — April 12, 1981

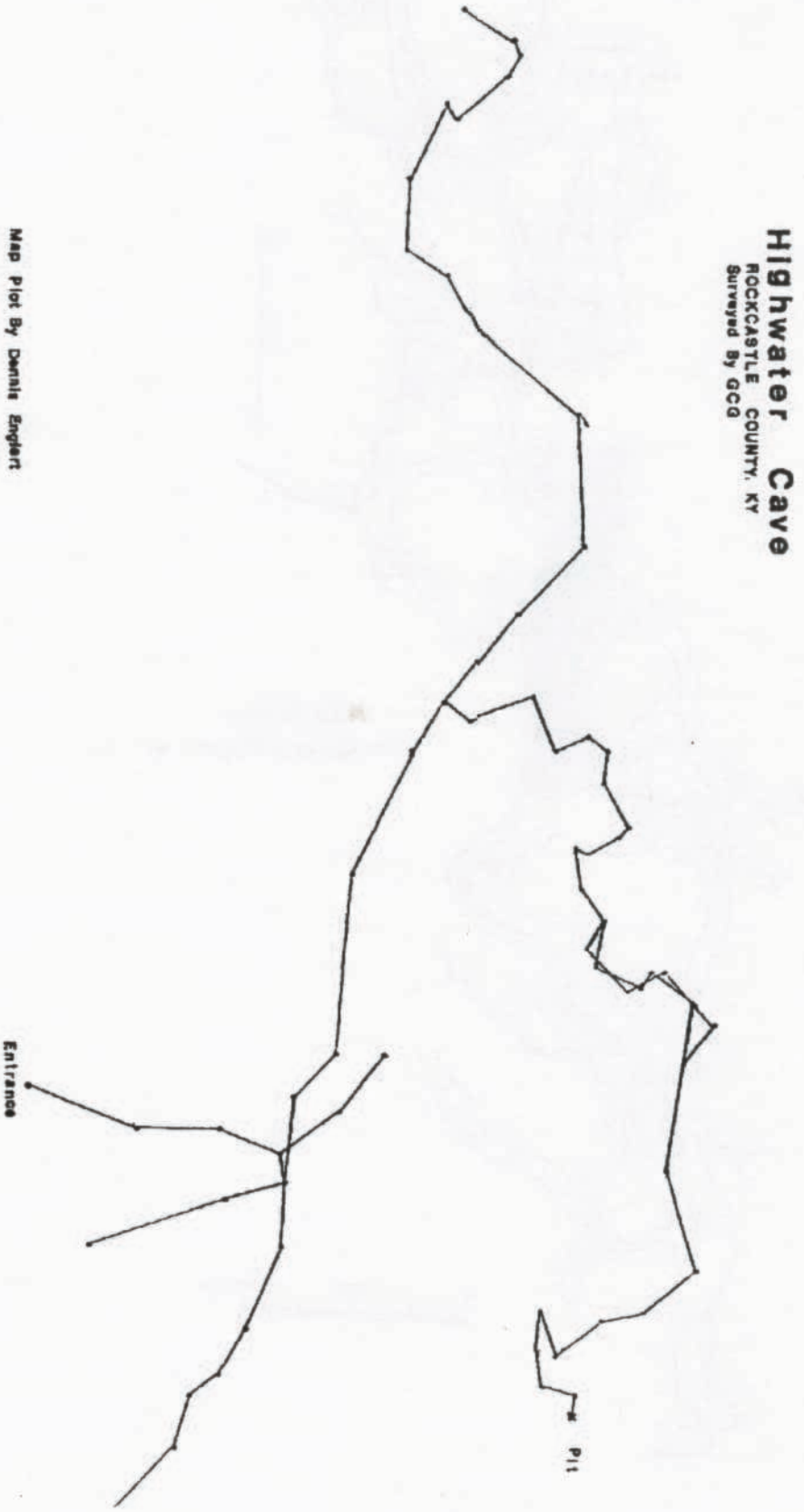
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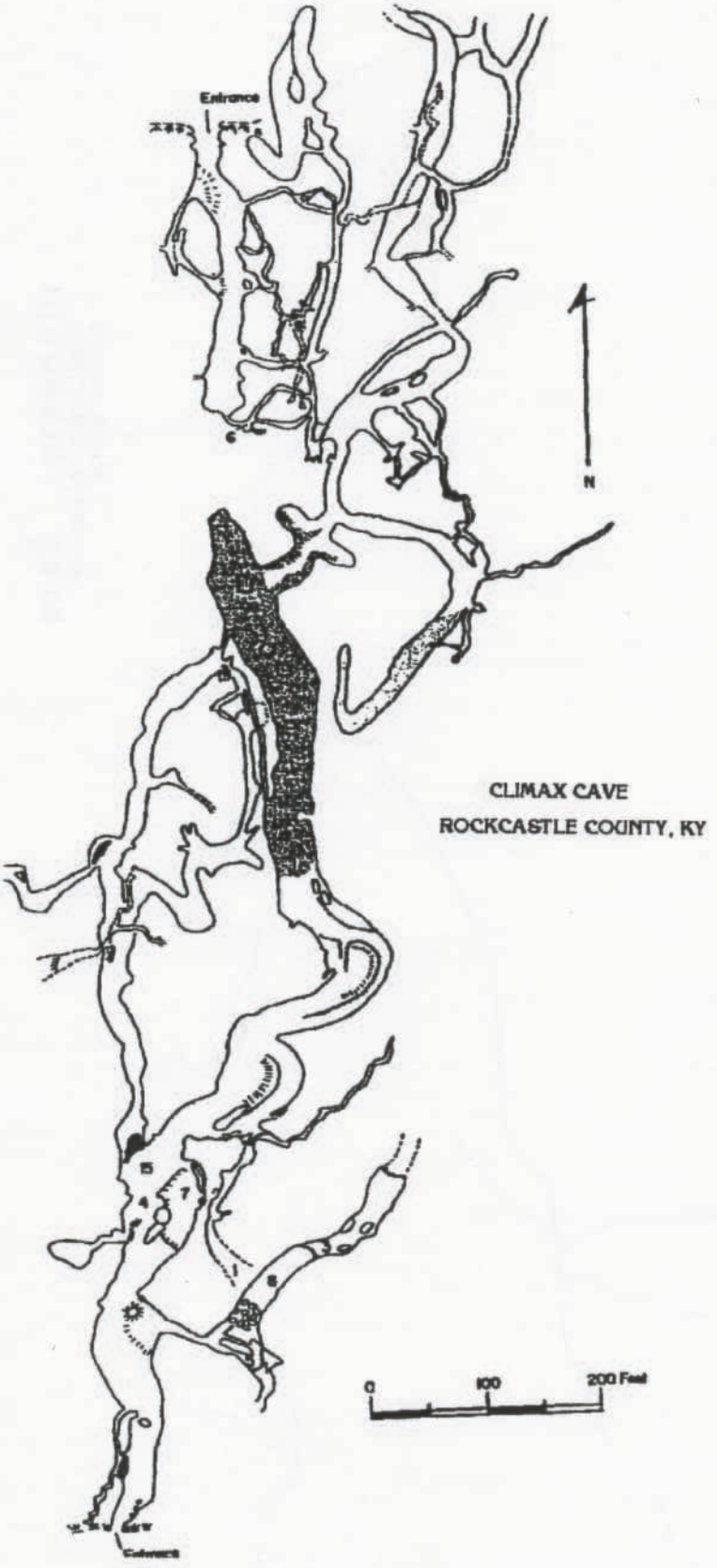
John Coffey Cave
Jackson Co. KY
1981

Survey by: L. McCarty,
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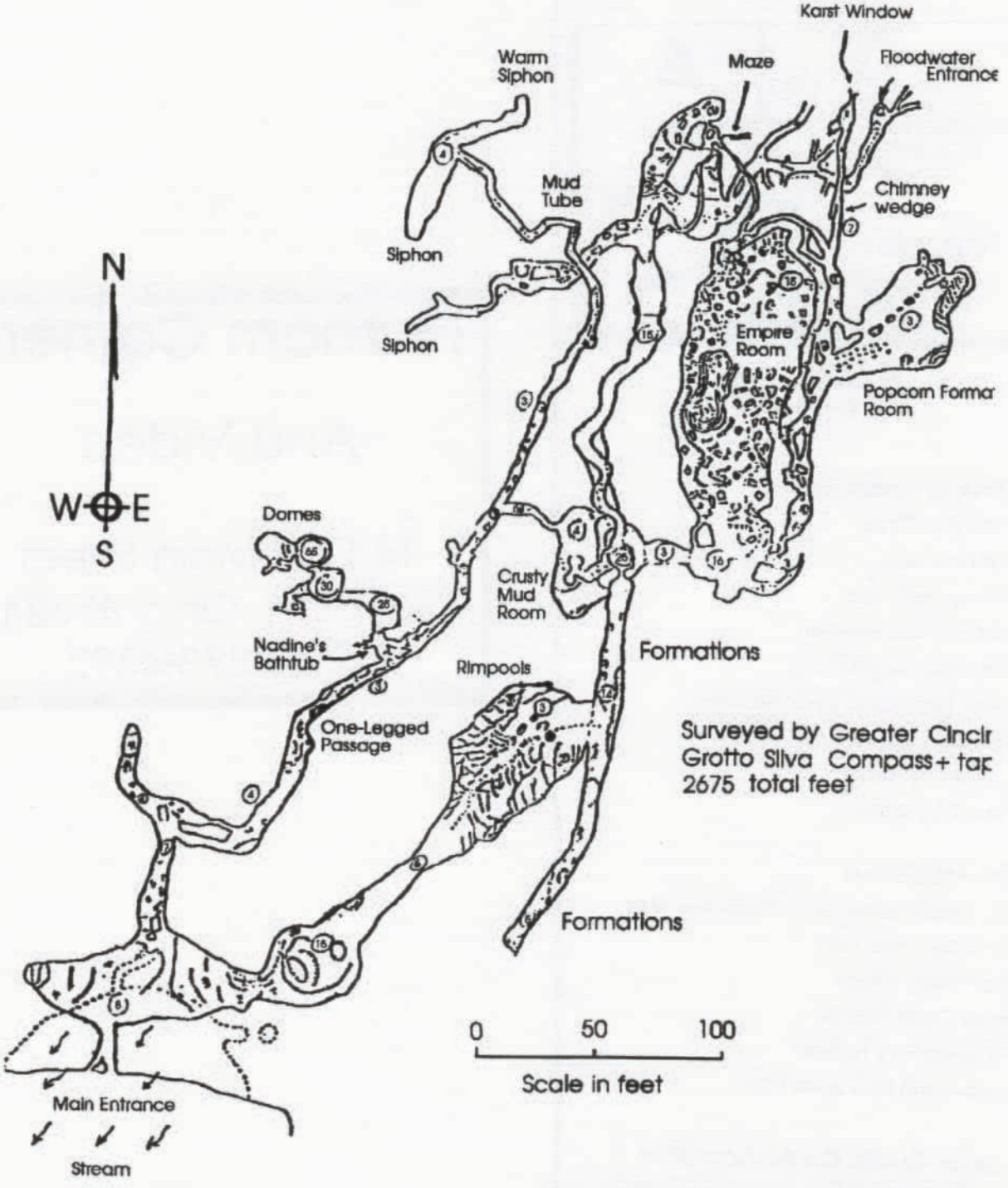


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Aurthur Singleton's Cave
Rockcastle County, Kentucky

Johnetta Quadrangle
by Jack Hissong

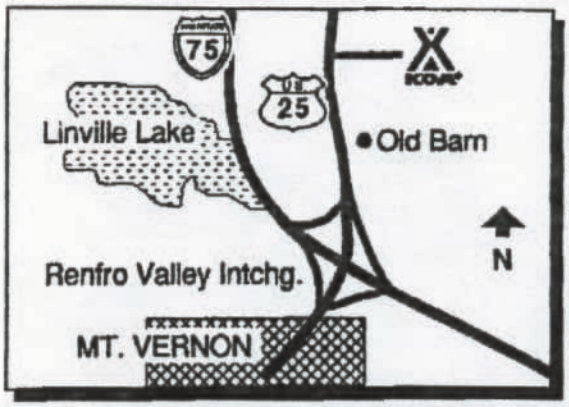


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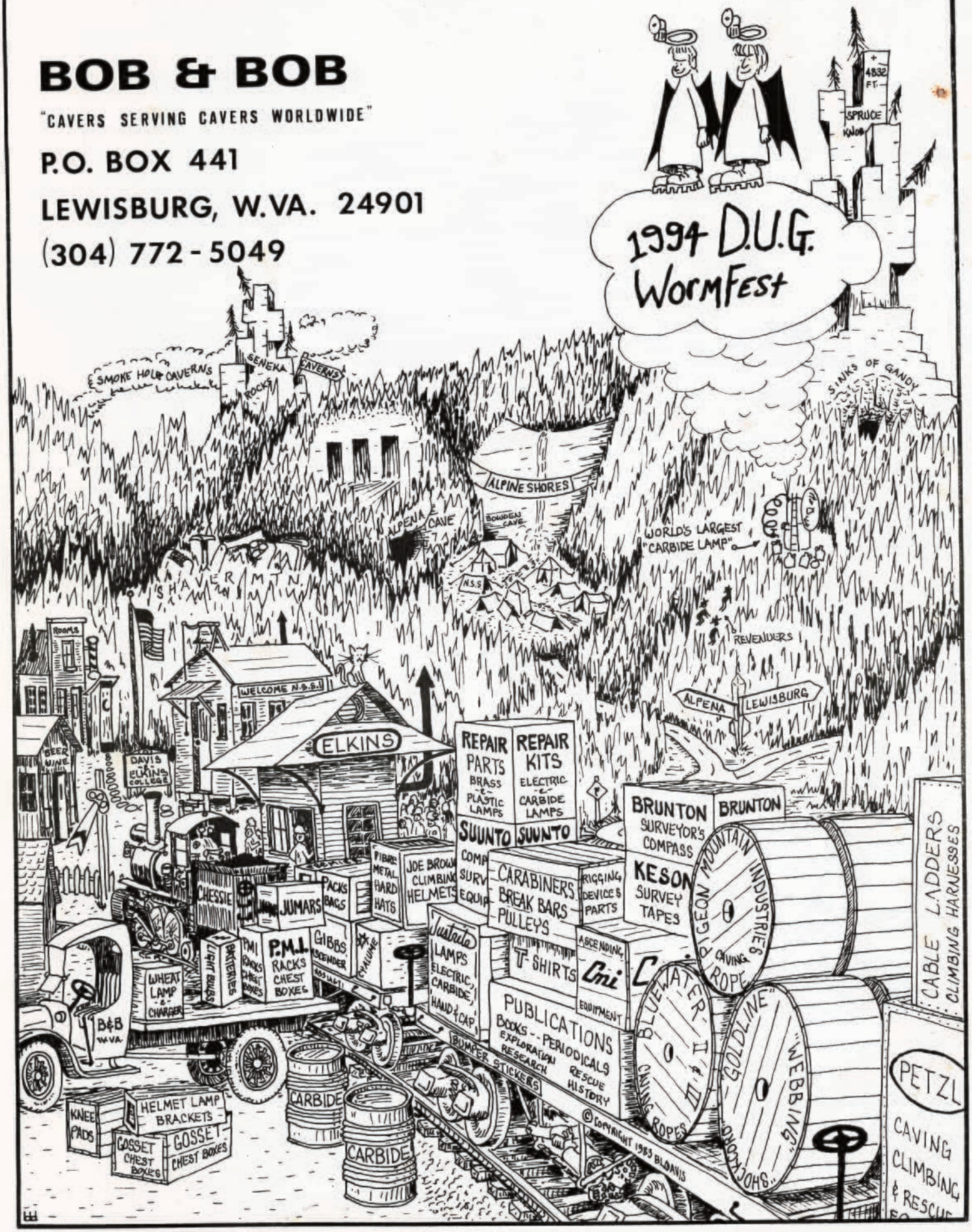
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