

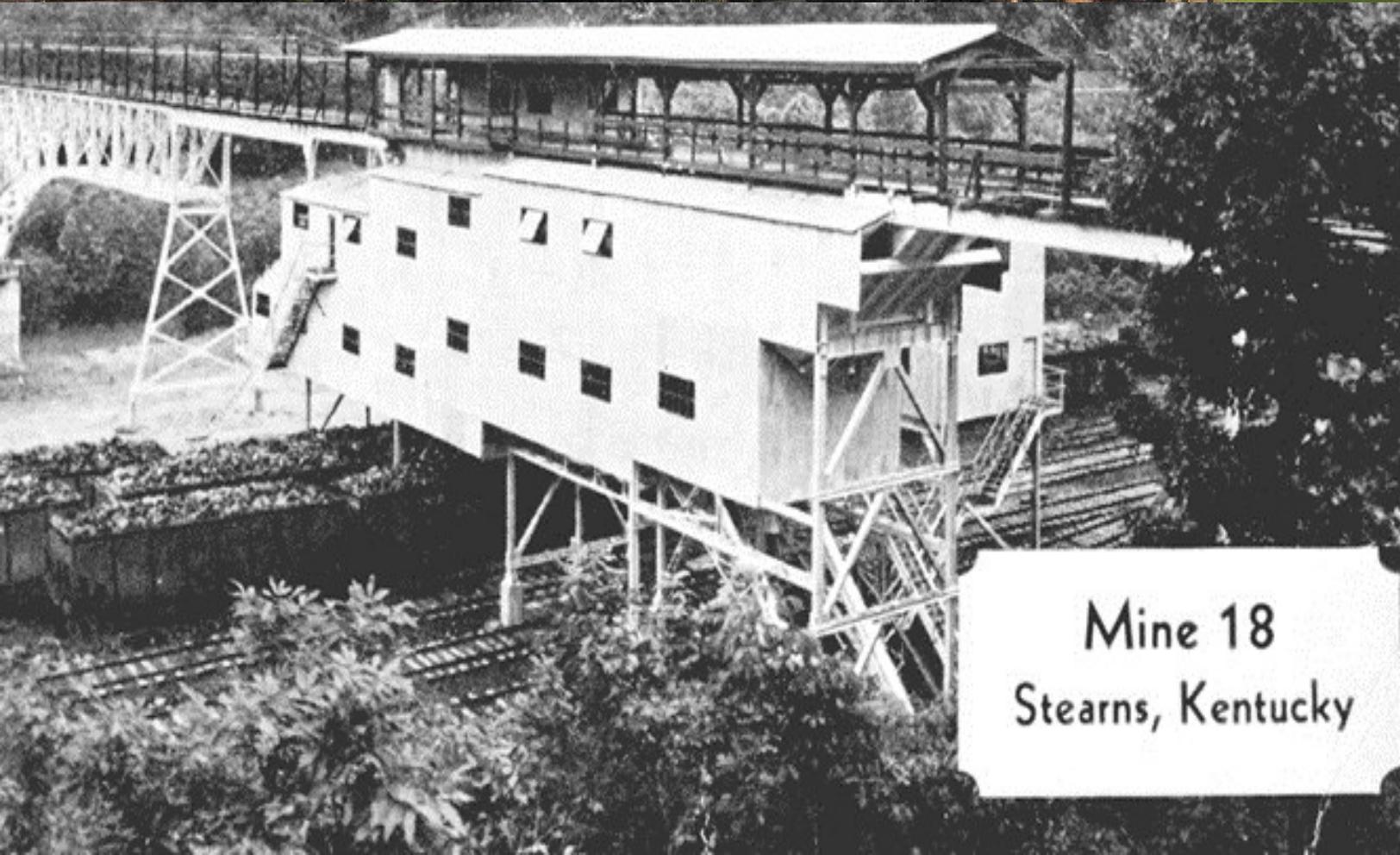
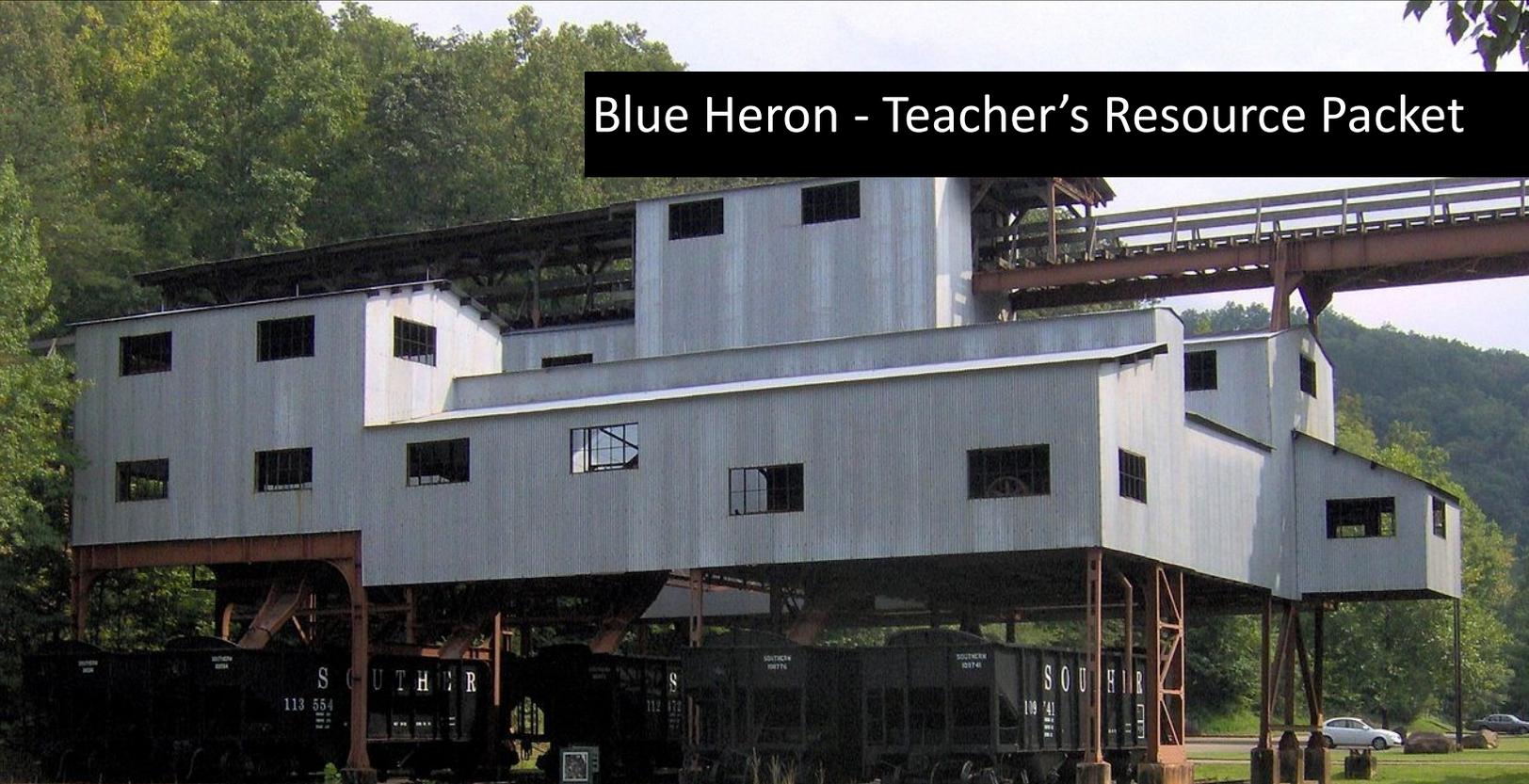
Big South Fork

National Park Service
U.S. Department of Interior



Big South Fork National River
& Recreation Area KY, TN

Blue Heron - Teacher's Resource Packet



Mine 18
Stearns, Kentucky

*"Life is a great adventure...
accept it in such a spirit."
~ Theodore Roosevelt*



Dear educator,

Thank you for participating in the Big South Fork's Environmental Education Programs. These programs provide an interdisciplinary learning experience for students integrating the natural and cultural resources of our park with Tennessee and Kentucky curriculum.

By visiting Big South Fork National River and Recreation Area your students have a unique opportunity to explore and learn in an outdoor laboratory.

On this trip, your students will be exploring one of the park's most unique areas—Blue Heron, also known as Mine 18. You and your students will be exploring the Blue Heron Coal Mining Camp that began operation in 1937 and closed in 1962. You will visit several locations in the camp and learn what life was like for the miners and their families when Blue Heron was an active mine. Some of the locations you will visit will be: the mine entrance, bathhouse, and the triple. If you have further questions, please feel free to contact us at: 423-286-7275

Thank you again for taking part in these exciting programs, we look forward to working with you and your students.

Education Programs offered at the Big South Fork

Leatherwood Ford—(K-4): Plants and Animals

Leatherwood Ford—(6-8): Plant lifecycle

Bandy Creek—(K-4): Forest Ecosystem

Angel Falls—(6-8): Geology

Blue Heron—(2-8): Blue Heron Mining Camp

2 *The Big South Fork*

Background:

National Park Service: The (NPS) is charged with the management and preservation of the nation's most precious natural and cultural resources. These resources are woven into our heritage, and they provide opportunities for recreation, appreciation of beauty, historical reflection, cultural enrichment, and environmental education.

The future vision of the NPS includes protection of park resource; access and enjoyment for all people; education and interpretation to convey contributions of each park unit and the National Park system to the nation's values, character, and experience; continuing science, research and resource management to manage and protect Park resources.

Big South Fork: The Big South Fork National River and Recreation Area of the Cumberland River drains an area of 1,382 square miles in Tennessee's Scott, Fentress, Pickett, and Morgan Counties and in Kentucky's Wayne and McCreary Counties. It threads through 106,000 acres of federally protected recreation area, established by Congress in 1974, giving the river traveler a true sense of wilderness.



This is an ancient river, cutting through gorges more than 250 million years old and is one of only three rivers in the United States designated by Congress as a "national river," that is, distinguished by its historical significance as well as its wild and scenic beauty. The Big South Fork is also one of the few rivers in the eastern United States that has not been dammed for power generation or flood control. The U.S. Corps of Engineers first proposed to dam the river in 1933, and construction was authorized several times in the 1950s and 1960s by the U.S. Senate, but the House of Representatives never agreed. Canoers, kayakers, and rafters of every skill level--from novice to expert--can find a stretch of the Big South Fork that offers them relaxation or challenge. The river's rapids range in difficulty from Class I to Class V. The best period to be on the river falls between March and the first part of June, before the water supply becomes problematic.

The Big South Fork National River and Recreation Area features spectacular scenery. Looking down from the Cumberland cliffs into the Big South Fork gorge hundreds of feet below, visitors have the feeling of standing on top of the world, and there is nothing quite like it. No visitor to the Cumberland wilderness can miss the extraordinary stone formations sculpted by the violent collision of continents and by the patient insistence of water flowing over--and after millions of years--through solid rock. Thousands of rock shelters and scores of natural arches are in the

area, but the most spectacular are the Twin Arches, one of the largest natural bridges in the world. Within the Tennessee section of the park, the larger South Arch has a clearance of 70 feet and a span of more than 135 feet. The North Arch has a clearance of 51 feet and a span of 93 feet.



The area boasts massive sandstone bluffs carved in semicircles, and white and scarlet oaks, tulip poplars, sugar maples, umbrella and cucumber magnolias, white ash, willows, sycamores, sweet gums, and river birch and hickory trees populate the forests. The spreading branches of hemlocks and the smooth bark of the American beech stand out amid a profusion of rhododendron, dogwood, holly, sassafras, mountain laurel, and azalea.

Animals are plentiful and include white-tailed deer, black bear, wild hogs, southern flying squirrels, gray squirrels, red and gray foxes, chipmunks, beaver, muskrat, mink, otter, bobcats, coyotes, long-tailed weasels, cottontail rabbits, and eastern spotted skunks. Birds--132 catalogued varieties--are seen and heard everywhere, including the ruffed grouse, the bobwhite, the hairy and the pileated woodpecker, the screech owl, the red-tailed hawk, an occasional osprey, the scarlet tanager, the crow, the whippoorwill, the cardinal, the mockingbird, the turkey, and the turkey vulture.

Human history in the Big South Fork area began about 12,000 years ago with the nomadic tribes of hunters who followed the elk, bison, deer, bear, and other large game animals to what is now Tennessee and Kentucky. The rock shelters that nature created were used as homesteads by these hunters, and about 4,000 such shelters can be found within Big South Fork National River and Recreation Area. The National Park Service lists approximately 1,700 archaeological sites in the area. (The Park Service also estimates that at one time there was one moonshine still for every 116 acres of the Big South Fork.)

There is evidence at these ancient sites of tremendous activity between 7,000-12,000 years ago. There is evidence of mussel gathering and of intentional burning of forests to clear land for primitive planting. Evidence also indicates that beginning about 7,000 years ago, and for the next 2,000 years human life in the Big South Fork area virtually vanished.

When they returned after 2,000 years, the people of the Big South Fork were hunting smaller game, collecting plants, living in primitive campsites, and moving with the seasons. Between 900 ACE and 1000 ACE, these people left the plateau for good and founded agricultural communities along the Tennessee and Cumberland Rivers. Occasional hunting forays into the mountains were all that linked people with the Big South Fork for the next 1000 years.

Long hunters changed all that when they first came to the area in the late 1700s. By 1800 several permanent homesteads had been established, but the fact that life was as hard for these settlers as their prehistoric predecessors is obvious from their choice of place names such as Difficulty, Troublesome, and No Business.

4 *The Big South Fork*

Identified historic farm sites include the Lora Blevins Farm and Oscar Blevins Farm near the park's Bandy Creek Visitor Center.

The nature of hardscrabble agriculture helped to make local settlers more Blue than Gray during the Civil War. Unlike planters further south, farmers in the Big South Fork region could not grow cotton and did not rely heavily on slaves. Most residents were fiercely loyal to the Union, sending more troops to serve in the Grand Army of the Republic than with the Confederacy. Indeed, when Tennessee finally seceded from the Union, Scott County seceded from Tennessee and briefly became the Independent State of Scott. The world little noted, nor long remembered, these passionate politics. On most maps of the era, this part of the country was referred to as simply "wilderness."

A portion of that "wilderness" now makes up the Big South Fork National River and Recreation Area. Planned and constructed by the U.S. Army Corps of Engineers, this multi-purpose facility operates under the management of the National Park Service. The NPS is determined to manage this area in a manner that is responsive to the varying needs and desires of a wide constituency of users while protecting and preserving the diversity of its natural and cultural resources.

The Big South Fork is a wilderness area inside the National River boundary that approximates the gorge surrounding the main river and adjacent tributaries, which means in the parlance of the NPS, "no vehicles, comforts, or conveniences." On the plateau of the recreation area, however, the Park Service must foster peaceful coexistence among a wider recreational base including four-wheel drive vehicles, bikers, horses, hikers, hunters, fishermen, and even trappers. Nature observation, hiking, mountain biking and horseback riding continue to be the major draw to the area, which makes for an interesting mix, as horses do not much care for bicycles, nor cyclists for horses. Those coming to view fall colors must remember that they share the area with those in pursuit of deer--we are all learning to share this very special place.

U.S. Sen. Howard Baker Jr.



Logistics:

This field trip is designed to take approximately 90 minutes.

The park ranger(s) who will be leading your group will be waiting for your bus at Blue Heron Mining Community. When you arrive, rangers will board the bus, introduce students to the National Park Service and its mission, briefly review the day's schedule and set program expectations. Once introductions are completed, students will disembark the bus and line up with their class (or group). Lunches, backpacks, and other items should remain on the bus. Students are permitted to carry a water bottle on the trail.

Schedule:

The following schedule represents a typical trip. However, please keep in mind that changes in weather, wildlife, and/or transportation may require schedule adjustments. Flexibility is essential to having an enjoyable visit to the park.



10:00 a.m. Arrive at Blue Heron Mining Community

10:00-10:15 a.m. Bathroom Break

10:15 a.m.-10:30 a.m. Meet the Ranger and Introduction

10:30 a.m. –11:30 a.m.—Tour of Blue Heron

11:30 a.m. Lunch

12:00 p.m. Depart for School

6 *Preparing For Your Field Trip*

Nametags: For safety and courtesy, the rangers prefer to address students and adults by name. Even a single piece of masking tape with a participant's first name written on it in big letters works well. If you choose to make name tags as a pre-site activity, be sure they are legible and do not fall off easily.

Lunch: School lunches or bag lunches with disposable items are best. Before leaving school, please label and organize the lunches by class to save time. Having lunches marked and organized for easy distribution will decrease the time spent passing them out and increase the time on the trail. A cooler per class is permitted for cold drinks. Remember, you will be outside for a few hours; if the school packs the lunches, we suggest you include water, juice, or cold drinks other than milk. If students pack their own lunches, remind them to bring an additional drink for lunch. As a reminder, food and drinks to purchase are not available at the picnic site. Students and chaperones are responsible for leaving the picnic area clean.

What to Wear: Comfortable pants or shorts, socks, and closed-toed shoes are suggested for both students and adults. Shoes should be comfortable for hiking along an unpaved trail.

Inclement Weather: If rain or cold weather is in the forecast, please communicate with parents that students should come properly dressed to be outside during the entire field trip. Layers work best and can always be left on the bus if they are not needed.

Bug Spray: Flying gnats, chiggers and ticks are common and can cause discomfort. Teachers should recommend that parents send appropriate insect repellent that they can use with their children.

Transportation: Each school must arrange and pay for its own transportation to and from the park. Most schools use district approved bus transportation. Some schools choose to transport children in private vehicles. Whichever method you choose, it must meet all school district safety regulations and care should be taken in safely packing and stowing lunches.

To maximize your time in the park, plan to depart from school as early as possible in the morning.

Chaperones: Chaperones are an integral part of the field trip experience. They provide support to the park ranger and teachers as well as guidance for the students. Please encourage chaperones to assist in maintaining discipline and to be on the lookout for potential safety hazards. We ask that adults refrain from using cell phones and from smoking in front of the students. Chaperones should be reminded to be active participants in all program activities. When the adults are actively engaged and modeling attentive behavior, the students will follow. Chaperones may be parents, school staff, or other responsible adults. Chaperones are chosen by the lead teacher with a minimum of one adult for every ten students (1:10 ratio) and with a maximum of eight adults total. Too many adults can be a distraction during the visit, but a minimum is required to maintain a safe learning environment. Having a chaperone stand-by list ready in case of last minute cancellations is always recommended.



Before Your Visit: This section provides suggestions on classroom activities and techniques to get you started in planning lessons to integrate the Big South Fork into your overall educational goals. Use your imagination in building your lesson plans.

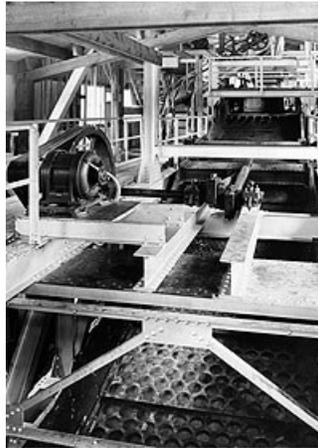
Blue Heron: Blue Heron, also known as Mine 18, is an abandoned coal mining town and was a part of the Stearns Coal and Lumber Company's past operation. The Blue Heron mines operated from 1937, until December, 1962, when operations were no longer profitable. During that time, hundreds of people lived and worked in this isolated community on the banks of the Big South Fork River. To learn more about Blue Heron visit Big South Fork's website at:

<https://www.nps.gov/biso/learn/historyculture/blueheron.htm>

Kentucky Coal: Coal was first discovered in Kentucky in the mid-1700s. It has been commercially mined since the early 1800s. Since then, billions of tons of coal have been mined in Kentucky. It has a long and rich history with coal. To learn more you can visit the Kentucky Office of Energy Policy, Division of Fossil Fuels & Utility Services and the Kentucky Coal Association's website at: http://www.coaleducation.org/Ky_coal_facts/

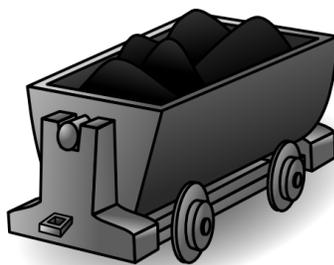
Post-Site Activities: Follow-up classroom activities that allow for reflection on the experience are a great way to wrap up programming. We encourage teachers to conduct activities that allow students to share their experience and express their new awareness with others. Artwork, displays, reports, and essays are all great ways to keep students thinking and learning about their backyard national park.

Online Resources: National parks offer a variety of materials for teachers and students. Virtual visits, electronic field trips, and WebRangers provide technology-based experiences. Visit www.nps.gov and www.webrangers.us.



Pre-Site Activities: Pre-site preparation conducted by classroom educators prior to field trips is a crucial part of the program. If students learn about the Big South Fork before the trip, they will have the opportunity to make tangible connections with what they previously learned. Additionally, the ranger will be able to build on their prior knowledge instead of covering the basics.

Predict, Observe, Explain: This strategy can be used in the classroom to predict what wildlife you will see on your field trip and in which habitats certain animals will be found. Record your predictions on the board or in notebooks. Observations can be made during the trip, and then discussed and compared to predictions afterwards. Were the original predictions accurate? What predictions can you make about wildlife activity at different times of the day and year? How about the future? Will habitats and wildlife populations change over time? What other evidence could you use to make more accurate predictions?



8

Evaluation, Safety, Rules & Emergencies

Evaluations: In an effort to continually improve our programming, after your field trip you will be given an evaluation form. Several questions are listed on the evaluations, but there is also space provided for general comments. Specific suggestions and honest comments, both on what worked and what did not, are welcome.



Protect Our National Park : Remind your students and chaperones that in a national park, collecting or damaging any plants, rocks, historic sites or animals is prohibited.

Wildlife: Feeding or harassing animals in the park is illegal. Remember that these are wild animals. Maintaining a safe distance of at least 10 to 15 feet between people and small animals is recommended. A distance of 150 feet is recommended for deer, bears, or other large animals. In addition to protecting ourselves, this also protects the wild nature of the animals.

Plants: Picking flowers or breaking off leaves damages the plants. Collecting pine cones, feathers, rocks, or other natural objects is not allowed in Big South Fork National Recreation Area or any national park.

Other Visitors: Loud noises and disruptive behavior may disturb wildlife or other visitors.

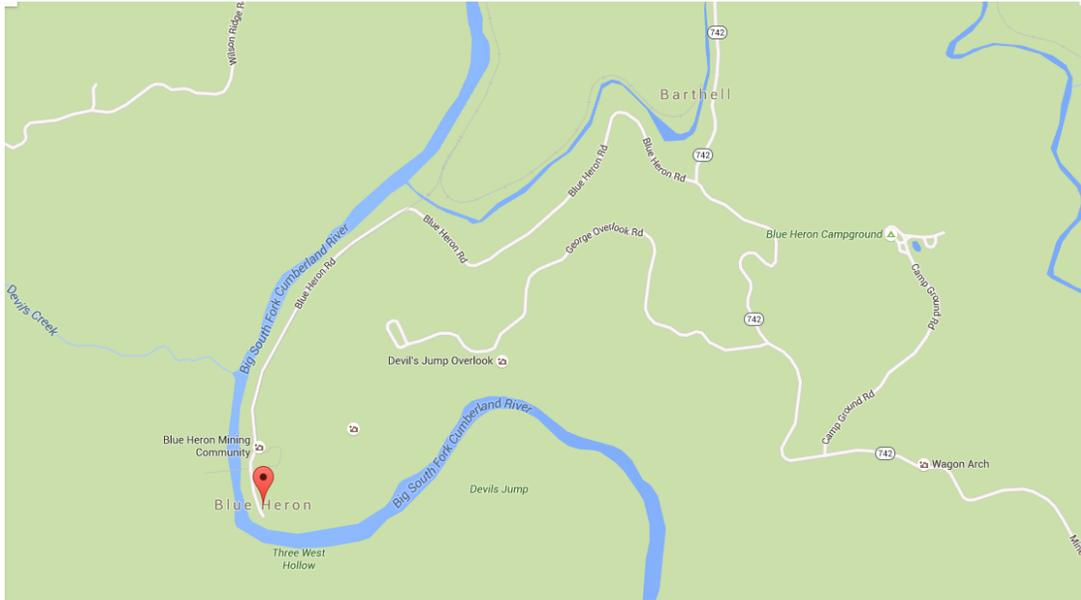
Stay Together: Remind students to always stay with their group. Each group should be led by a teacher or ranger, with an adult chaperone at the end.

Be Aware: Biting/stinging insects and snakes are common in the park so avoid exposure or injuries by being aware of your surroundings, especially where you put your hands or feet.

Leave No Trace: Except for one water bottle each, we ask students to leave all belongings on the bus. This helps keep our trails clean. Likewise, after lunch, your group is responsible for picking up all pieces of trash and crumbs.

Emergencies: Park rangers carry radios and can request emergency medical assistance. If a student in your group is injured or falls ill, notify a ranger immediately. If a child is not feeling well, assign an adult chaperone to stay with him or her. For an emergency in the park, dial 9-1-1.

Blue Heron Mining Camp:



Blue Heron Mining Camp is located on KY-742W, approximately 10.5 miles from Stearns, KY
For specific directions to Blue Heron Mining Camp—[Click Here](#).

