

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Inventory—Nomination Form

For NPS use only

received

FEB 15 1983

date entered

See instructions in *How to Complete National Register Forms*  
Type all entries—complete applicable sections

1. Name

historic Burra Burra Mine Historic District

and/or common Same

2. Location

street & number <sup>TN</sup> Highway 68 and Burra Street N/A not for publication

city, town Ducktown N/A vicinity of

state Tennessee code 047 county Polk code 139

3. Classification

<b>Category</b>	<b>Ownership</b>	<b>Status</b>	<b>Present Use</b>	
<input checked="" type="checkbox"/> district	<input type="checkbox"/> public	<input checked="" type="checkbox"/> occupied	<input type="checkbox"/> agriculture	<input checked="" type="checkbox"/> museum
<input type="checkbox"/> building(s)	<input checked="" type="checkbox"/> private	<input type="checkbox"/> unoccupied	<input type="checkbox"/> commercial	<input type="checkbox"/> park
<input type="checkbox"/> structure	<input type="checkbox"/> both	<input type="checkbox"/> work in progress	<input type="checkbox"/> educational	<input type="checkbox"/> private residence
<input type="checkbox"/> site	<b>Public Acquisition</b>	<b>Accessible</b>	<input type="checkbox"/> entertainment	<input type="checkbox"/> religious
<input type="checkbox"/> object	<input checked="" type="checkbox"/> in process	<input checked="" type="checkbox"/> yes: restricted	<input type="checkbox"/> government	<input type="checkbox"/> scientific
	<input type="checkbox"/> being considered	<input type="checkbox"/> yes: unrestricted	<input type="checkbox"/> industrial	<input type="checkbox"/> transportation
		<input type="checkbox"/> no	<input type="checkbox"/> military	<input type="checkbox"/> other:

4. Owner of Property

name Ducktown Basin Museum

street & number P. O. Box 458

city, town Ducktown N/A vicinity of state Tennessee 37326

5. Location of Legal Description

courthouse, registry of deeds, etc. Registry of Deeds, Polk County Courthouse

street & number Highway 411

city, town Benton state Tennessee

6. Representation in Existing Surveys

title N/A has this property been determined eligible?  yes  no

date N/A N/A federal  state  county  local

depository for survey records N/A

city, town N/A state N/A

## 7. Description

<b>Condition</b>		<b>Check one</b>	<b>Check one</b>
<input type="checkbox"/> excellent	<input type="checkbox"/> deteriorated	<input type="checkbox"/> unaltered	<input checked="" type="checkbox"/> original site
<input checked="" type="checkbox"/> good	<input type="checkbox"/> ruins	<input checked="" type="checkbox"/> altered	<input type="checkbox"/> moved    date _____
<input type="checkbox"/> fair	<input type="checkbox"/> unexposed		

### Describe the present and original (if known) physical appearance

The Burra Burra Mine Historic District is located in Ducktown, Tennessee (pop. 562) in the extreme southeastern corner of the state. The 14.3 acre district contains the entrance to the Burra Burra Mine and thirteen surviving structures which comprise a nearly complete copper mine complex of the early twentieth century. Using brick, wood, and steel as the principal structural materials, the buildings are all one-story, except for the Boiler House. The district retains an outstanding degree of its original architectural integrity.

Ducktown is situated in the mountains of southeastern Tennessee on the edge of the Cherokee National Forest approximately forty miles west of Chattanooga. The nominated mine complex occupies a hill adjacent to and overlooking the town to the north. The district lies along the north slope of the hill and is roughly bounded by State Highway 68 to the west, the community of Ducktown to the north, High Street to the east, and the crest of the hill to the south. At the top of the hill are the Mine Entrance, Mine Office, Machine Shop, Plate Shop, Change House, Storage Building, and Derrick. About midway down the slope is Burra Street, along which are the Ore Bins, Core House, Bit House, Hoist House, Clinic, and Boiler House. At the bottom of the slope within the district are the Powder House and a baseball field used by the mine workers.

The immediate surroundings of the Burra Burra Mine are bare, reddish brown hills devoid of most vegetation since the turn of the century because of the copper industry. In the 1840's copper was discovered in the Copper Basin of Tennessee, Georgia, and North Carolina, a low-grade copper of great depth and seemingly in inexhaustible quantities. Mixed with the ore is sulfur, and for years the gases produced in the reduction process destroyed most of the plant life for miles around. The trees that were not killed by sulfur dioxide were cut to supply fuel for various aspects of the copper industry. Although some of the furthest hills from the nominated district have now been reforested, the historical context of the Burra Burra Mine remains intact.

The complex of thirteen structures illustrates almost all aspects of deep copper mining in the early twentieth century. The only important original building which is missing is the 130 foot headframe at the mine entrance, which was dismantled in 1966. This tall, narrow building of steel frame construction was erected in 1917 and housed the elevators and other machinery which carried the men in and out of the mines as well as the ore. All of the remaining buildings are in relatively good structural condition and are basically unaltered from their original appearance. The following nominated structures are significant in the historic and architectural development of the mine, possess compatible design elements, and maintain the scale, use, and texture of the district.

1. Mine Office. Ca. 1910. Industrial Vernacular. One-story, clapboard, L-shaped plan; hip roof; one-over-one windows.

The building originally housed the management offices for the mine. It is now used as the museum and orientation center for the complex. Exhibits and a slide presentation give the history of the Copper Basin.

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Inventory—Nomination Form**

Burra Burra Mine

Continuation sheet Historic District

Item number 7

Page 2

For NPS use only  
received  
date entered

2. Machine Shop. 1922. Industrial Vernacular. One-story, eight-by-eighteen-bay brick; gable roof with clerestory.

The structure contained the machinery for the repair of all equipment used in the mine. Some early machinery and equipment are on display. There are plans to expand the interpretation of this aspect of the museum presentation.

3. Plate Shop. Ca. 1920. Industrial Vernacular. One-story, six-by-one-bay corrugated metal; shed roof.

The building stored the sheets of metal plate used to manufacture and repair equipment for the mine.

4. Change House. 1913. Industrial Vernacular. One-story, seven-by-seventeen-bay brick; gable roof with clerestory.

The facility has the lockers, showers, and so forth, used by the miners. The interior retains most of its early fixtures. The building could accommodate 300 miners per shift.

5. Storage Building. Ca. 1920. Industrial Vernacular. One-story, one-by-one-bay corrugated metal, gable roof.

The structure was used for the storage of miscellaneous items.

6. Derrick. 1917. Industrial Vernacular. Steel frame, straight-legged.

The derrick was used to move heavy equipment around the mine site.

7. Ore Bins. 1917. Industrial Vernacular. Three-bay concrete, steel.

Originally there was a one-story, steel frame structure on top of the extant concrete silos, or bins. The copper ore was stored in the bins, and railroad cars moved on a track through the bases of the silos and were filled with ore for shipment.

8. Core House. 1902. Industrial Vernacular. One-story, one-by-ten-bay clapboard; gable roof; porch with shed roof.

Core samples from the mine were analyzed in this building.

9. Bit House. Ca. 1920. Industrial Vernacular. One-story, one-by-one-bay corrugated metal; gable roof; wooden entrance platform with steps.

Bits and other drilling equipment were stored here.

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Inventory—Nomination Form**

For NPS use only

received

date entered

Burra Burra Mine

Continuation sheet Historic District

Item number 7

Page 3

10. Powder House. 1901. Industrial Vernacular. One-story, two-by-one-bay brick; gable roof; wooden entrance platform.

The explosives used in the mining process were kept here well away from other buildings.

11. Hoist House. 1900. Industrial Vernacular. One-story, eight-by-three-bay brick; gable roof; one-bay entrance porch; multiple-pane, double windows with elliptical arches.

The building housed the machinery which operated the pulleys which ran from this building to power the elevators in the headframe. Almost all of the machinery has been removed.

12. Boiler House. 1900. Industrial Vernacular. One-story, three-by-five-bay brick; gable roof with clerestory; multiple-pane windows with elliptical arches.

The boiler provided the power to run the hoist equipment.

13. Clinic. Ca. 1910. Industrial Vernacular. One-story, two-by-two bay clapboard; hip roof; one-over-one windows; small entrance porch.

The mining company doctor in this building provided medical care to the miners and their families.

Although the current bleachers and backstop are less than fifty years old, the baseball field for the miners has been in existence since the early twentieth century. The 1899 entrance to the mine (see Sketch Map) has been sealed with concrete and covered with earth to form a level area undistinguished by any physical features.

An architectural and historical survey of the Burra Burra Mine Historic District was conducted by Shain Dennison and Lloyd Ostby of the Tennessee Historical Commission in August 1982. Primary research was done at the Ducktown Basin Museum and the Tennessee Historical Commission. Interviews with local historians and officials of the Ducktown Basin Museum supplemented the above-described research. This information was the basis for determining the historic boundaries and significance of the district. Each structure was inspected and researched to establish its individual importance in the district.

## 8. Significance

Period	Areas of Significance—Check and justify below			
<input type="checkbox"/> prehistoric	<input type="checkbox"/> archeology-prehistoric	<input type="checkbox"/> community planning	<input type="checkbox"/> landscape architecture	<input type="checkbox"/> religion
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> archeology-historic	<input checked="" type="checkbox"/> conservation	<input type="checkbox"/> law	<input type="checkbox"/> science
<input type="checkbox"/> 1500-1599	<input type="checkbox"/> agriculture	<input type="checkbox"/> economics	<input type="checkbox"/> literature	<input type="checkbox"/> sculpture
<input type="checkbox"/> 1600-1699	<input checked="" type="checkbox"/> architecture	<input type="checkbox"/> education	<input type="checkbox"/> military	<input type="checkbox"/> social/ humanitarian
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> art	<input type="checkbox"/> engineering	<input type="checkbox"/> music	<input type="checkbox"/> theater
<input checked="" type="checkbox"/> 1800-1899	<input type="checkbox"/> commerce	<input type="checkbox"/> exploration/settlement	<input type="checkbox"/> philosophy	<input type="checkbox"/> transportation
<input checked="" type="checkbox"/> 1900-	<input type="checkbox"/> communications	<input checked="" type="checkbox"/> industry	<input type="checkbox"/> politics/government	<input type="checkbox"/> other (specify)
		<input type="checkbox"/> invention		

Specific dates	1900-1922	Builder/Architect	Unknown
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### Statement of Significance (in one paragraph)

The Burra Burra Mine Historic District is nominated under National Register criteria A and C for its state and local significance in architecture, industry and conservation law. The Burra Burra Mine Historic District is the only extant early-twentieth century-mining complex remaining in the Copper Basin, a six to eight-mile-wide area of Polk County, Tennessee, North Carolina's Cherokee County, and Georgia's Fannin County that has been used for mining copper, sulfur, iron, and zinc since as early as 1850. Burra, a copper mining complex of thirteen structures dating from 1900-1922 located atop a neighboring hill of Ducktown, Tennessee, is the oldest remaining mine complex in the Basin and the only mine with its original buildings intact. Burra is significant as an example of early-twentieth-century industrial architecture; it illustrates the various types of buildings and structures necessary for operation of a deep mine and their methods of construction. The immense copper industry of the Basin was extremely important to and had a tremendous impact on the livelihood and culture of rural Southeastern Tennesseans. The denuding of miles of hills and gullies in the Basin caused by the sulfur dioxide gases emitted from the mining industry's early roasting process and the tree stripping for wood fuel, resulted in two early 1900s court cases, one state and one U. S., that were important in the development of conservation law.

The Basin's copper mines are the only ones of their type in the Southeastern United States and Burra is the only deep copper mine east of the Mississippi River (Michigan has a strip copper mine). Burra dominated the mining scene in the Basin from its beginning around 1900 to 1958, operating continuously for almost 60 years. Copper mining in the Basin, as exemplified in Burra, has been an immense business and great industry for Tennessee. It has had a tremendous impact on the lives of rural East Tennesseans. Prior to the mining operations in the Basin, 200 people lived in the area; the population by 1904 grew to over 12,000 persons almost wholly dependent on the industry, with the increase directly attributed to the economic success and importance of the copper mines. In 1903 Polk County, in which Burra is located, had a total tax aggregate of just over 2½ million dollars. One half of that amount was the assessment for the two mining companies operating in the Basin that year. Over 1400 men from Polk and neighboring counties were employed by the mining companies in the early 1900s and many others found employment as a result of the mining operations' use of tons of coke and coal and a thousand cords of wood per year. The mining companies purchased 80% of these supplies from Polk County citizens.

The history of copper mining in the Basin began at Ducktown at the site of Burra, although copper had been discovered elsewhere in the area in 1843. The copper initially was mistaken for gold; the value and potential mining copper held was not recognized until a mine was opened at Ducktown in 1850 called the Hiawasse (now Burra). Copper and supplies were hauled on a wagon road cut through the Ocoee River Gorge to Cleveland, Tennessee, site of the nearest railroad. Copper mining was stimulated by the outbreak of the Civil War in 1861, but in 1863 Union troops occupied Cleveland and halted all operations at Ducktown. After 1865, mining in the Basin resumed and grew, accelerated by the use of the diamond drill and a new explosive, dynamite. By 1879, however, the high cost of hauling copper ingots to the railroad at Cleveland forced a shutdown until completion of the railroad to Knoxville in 1890, twelve years later.

# 9. Major Bibliographical References

See Continuation Sheet

# 10. Geographical Data

Acreeage of nominated property 14.3

Quadrangle name Ducktown, Tennessee

Quadrangle scale 1:24000

### UTM References

A	<u>1</u> <u>6</u>	<u>7</u> <u>3</u> <u>9</u> <u>2</u> <u>4</u> <u>0</u>	<u>3</u> <u>8</u> <u>7</u> <u>9</u> <u>9</u> <u>6</u> <u>0</u>
	Zone	Easting	Northing

B	<u>1</u> <u>6</u>	<u>7</u> <u>3</u> <u>9</u> <u>0</u> <u>0</u> <u>0</u>	<u>3</u> <u>8</u> <u>7</u> <u>9</u> <u>7</u> <u>6</u> <u>0</u>
	Zone	Easting	Northing

C	<u>1</u> <u>6</u>	<u>7</u> <u>3</u> <u>8</u> <u>9</u> <u>2</u> <u>0</u>	<u>3</u> <u>8</u> <u>7</u> <u>9</u> <u>9</u> <u>4</u> <u>0</u>
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D	<u>1</u> <u>6</u>	<u>7</u> <u>3</u> <u>9</u> <u>1</u> <u>0</u> <u>0</u>	<u>3</u> <u>8</u> <u>8</u> <u>0</u> <u>0</u> <u>4</u> <u>0</u>
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E	<u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
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F	<u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
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G	<u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
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H	<u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
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### Verbal boundary description and justification

See Continuation Sheet

### List all states and counties for properties overlapping state or county boundaries

state	<u>N/A</u>	code	<u>N/A</u>	county	<u>N/A</u>	code	<u>N/A</u>
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state	<u>N/A</u>	code	<u>N/A</u>	county	<u>N/A</u>	code	<u>N/A</u>
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# 11. Form Prepared By

name/title Shain T. Dennison, Architectural Historian  
Lloyd Ostby, Co-ordinator of Field Services

organization Tennessee Historical Commission date October, 1982

street & number 701 Broadway telephone 615/742-6716

city or town Nashville state Tennessee 37203

# 12. State Historic Preservation Officer Certification

The evaluated significance of this property within the state is:

national  state  local

As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.

Deputy State Historic Preservation Officer signature *Herbert E. Hayden*

title Executive Director, Tennessee Historical Commission date 2/7/83

### For NPS use only

I hereby certify that this property is included in the National Register

*for Allene Byers*  
Keeper of the National Register

Entered in the National Register date 3/17/83

Attest: \_\_\_\_\_ date \_\_\_\_\_

Chief of Registration

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Inventory—Nomination Form**

For NPS use only

received

date entered

Burra Burra Mine  
Continuation sheet Historic District

Item number 8

Page 2

Several small mining companies were operating in the Basin in the last half of the nineteenth century. A J.T. Raht from Germany first began operation of a mine at Ducktown. A company was formed at Ducktown in 1860, named the Burra Burra Copper Company. The new company began mining and smelting on a larger scale than the previous operation and named itself after the famous Australian mine of the day, Burra Burra.

Struggling under the weight of a dozen small companies in the early years, the Basin's copper industry organized into the Union Consolidated Mining Company (UCMC) which operated until 1879 when the shutdown began. In 1891 the Ducktown Sulphur, Copper, & Iron Company operated the mines of the UCMC. This company was followed by the Pittsburg & Tennessee Copper Company in 1891, operating until about 1899 when it sold out to the Tennessee Copper Company. From 1899 to 1965 the Tennessee Copper Company operated all of the mining facilities in the Basin. Cities Services Company later acquired the Tennessee Copper Company and continues today operating all mining facilities in the Basin.

The Tennessee Copper Company closed mining of the Burra in 1958. Burra's buildings continued to be used, primarily as mining department offices and maintenance shops, until 1979 when the company donated the Burra facilities to the Copper Basin Economic Development Association, which in turn transferred the facilities to the Ducktown Basin Museum. The Burra Burra Mine complex is now operated by volunteers as a museum, presenting the history and culture of the Basin through the mine complex's remarkably unchanged buildings.

For 41 years of the almost 60 years of operation, Burra was the main source of raw materials for the Cities Services Company operations in the Basin. Burra's mine depth had reached 2400 feet (550 feet below sea level) before its closing. Engineers, as stated in a 1958 mining company newsletter, reported that a history of modern-day mining as it evolved during the first half of the twentieth century could be written in terms of the technological and safety developments that have taken place over the years at Burra. (Burra was the first Basin mine to achieve national recognition, in 1933, for safety achievements.)

Burra Burra Mine dominated mining in the Basin for many years. Its surface became the major locale for mine offices, maintenance shops and other support units. The buildings date from 1900 to 1922 and among other uses they housed a repair shop, welding shop, blacksmith shop, machine shop, drill shop, carpenter shop, paint shop, electrical shop, and a supply facility. Although the various building uses changed at times, they all served the mining operation and remain practically unaltered, except for the large headframe that was removed in 1966. Thus, they provide a clear record of industrial architecture from the early twentieth century and illustrate the various kinds of structures and building types necessary for the operation of a deep copper mine. Although the buildings are industrial structures, their simple proportions and clear expression of materials and function have a definite aesthetic and architectural value. This is especially true of the Hoist and Boiler Houses, which have excellent brickwork with bands of dark, glazed headers.

In addition to the importance Burra has achieved through its industrial history and architecture, it has played an important role in the development of environmental/conservation law. Two of the country's first court cases involving issues of environmental conservation versus economic benefits centered around Ducktown and the Burra Burra Mine.

**United States Department of the Interior  
National Park Service****National Register of Historic Places  
Inventory—Nomination Form**

For NPS use only

received

date entered

Burra Burra Mine  
Continuation sheet Historic District Item number 8 Page 3

The still barren brown hills of the Basin were denuded in the early 1900s as the result of mining operations in the course of reducing copper ore. The copper ore as it comes from the mine is primarily a copper-sulfur mineral and before it can be converted into metallic copper it must be changed into a copper oxide. This chemical process, called roasting, was accomplished at the turn of the century by placing the broken-up ore on layers of wood in large "roast piles" burning off the sulfur compounds as sulfur dioxide. However, the sulfur dioxide reacted with water vapor in the air forming "acid fog" or "acid rain." This fog or rain of sulfur dioxide gases killed surface vegetation and young timber. The Basin was stripped of its trees, for wood was the fuel used in the smelting process. Within a few years numerous miles of timber had been cut, burned in forest fires, or had died from sulfur dioxide fumes. Top soil on the rolling hills soon eroded away, leaving bare hills and gullies.

As a result, two court cases occurred that figured prominently in the field of conservation law. In one case, *Madison v. Ducktown Sulphur Copper and Iron Co. and Madison v. Tennessee Copper Company* 83S.W. 658 (113 Tenn. 331, 1904) the defendants, local farmers, filed for an injunction in state court to stop the roasting process on the grounds of nuisance to their lives and livelihood. The court found that the roasting did in fact constitute a nuisance and did cause damages but it denied the injunction arguing that the economic benefits of the copper industry to the town, county and state outweighed the relief gained by the plaintiffs.

In a case heard by the U.S. Supreme Court (*Georgia v. Tennessee Copper Co.* 206 U.S.236) in 1906, the State of Georgia petitioned to enjoin the defendant from discharging noxious gas from their works over the state line in Georgia thereby depriving the state of their sovereignty. Georgia argued that it was her right to decide if her citizens had clean air. Justice Oliver Wendall Holmes wrote the majority opinion and stated that "... the State has an interest independent of and behind the titles of its citizens, in all the earth and air within its domain. It has the last word as to whether its mountains shall be stripped of their forests and its inhabitants shall breathe pure air..." That same year, the court held that the State was entitled to an injunction until the company completed the structures they were building to stop the fumes.

These legal cases were important steps in the development of conservation law and parenthetically the move to reclaim the noxious gases has resulted in sulfuric acid being the primary product in the Copper Basin.

With construction of the first sulfuric acid plant in 1907, the destructive gases were contained and converted to sulfuric acid, ending the era of ecological havoc. A re-forestation program, begun in the 1930s and sponsored initially by the Tennessee Copper Company and TVA, is continued by the Cities Service Company. It involves planting of thousands of pines and plants annually, gradually restoring the once tree-covered hills of the Basin.

At the heyday of the mining industry in the 1940s, about six mines were operating in the Basin. Only three mines operate in the Basin today; these date to the 1950s. All other mines, several that were contemporary with Burra, have nothing left but surface rubble. Burra is the oldest mine in the Basin with extant original buildings and has always been considered one of the most important mines. Sitting atop the hill adjacent to Ducktown and overlooking the vast brown hills of the Basin, the Burra Burra Mine serves as a tangible reminder of the Copper Basin's immense early mining industry.



**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Inventory—Nomination Form**

For NPS use only

received

date entered

Burra Burra Mine  
Continuation sheet Historic District

Item number 9

Page 2

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Hodge, W. R. "Loading Pockets and Measuring Capsules in Burra Burra Mine." English Mining Journal, vol. 103 (1917), pp. 59-97.

Ross, Clarence S. Origins of the Copper Deposits of the Ducktown Type in the Southern Appalachian Region. U. S. Geological Survey. Professional Paper No. 179. Washington: GPO, 1935.

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Inventory—Nomination Form**

Burra Burra Mine

Continuation sheet Historic District

Item number 10

Page 2

For NPS use only

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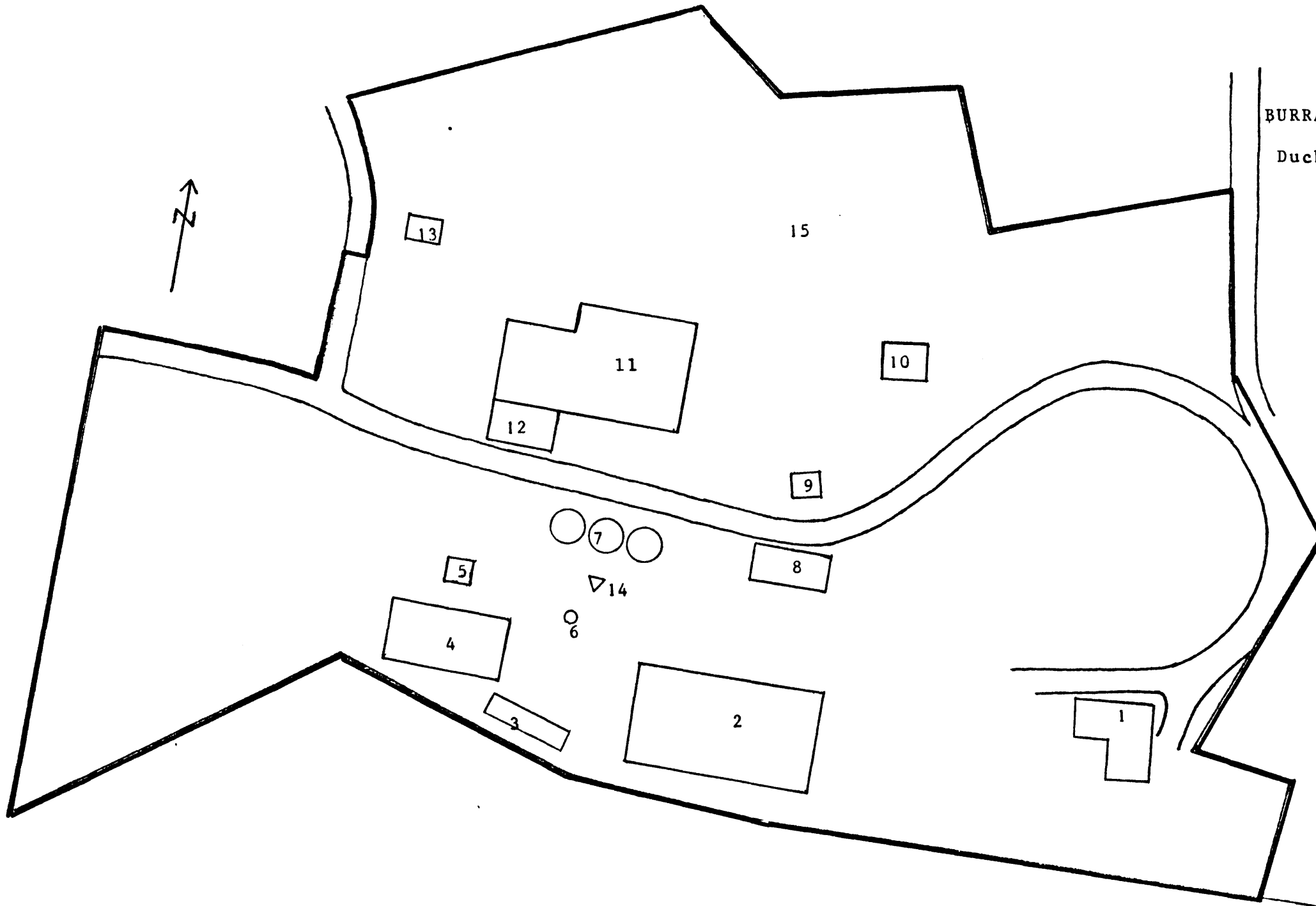
Verbal boundary description and justification

The district lies along the north slope of the hill and is roughly bounded by State Highway 68 to the west, the community of Ducktown to the north, High Street to the east, and the crest of the hill to the south. The boundaries are those of the property donated to the Ducktown Basin Museum and include only the land directly associated with the activities of the mine. The clinic and baseball field have been included in the nomination because of their historical associations with the daily activities of the mine and the social/humanitarian aspects of mining in the early twentieth century. Although the sealed entrance site of the mine itself is within the surface boundaries of the district, the network of mine shafts below ground level are not included in the nomination.

BURRA BURRA MINE HISTORIC DISTRICT  
Ducktown, Polk County, Tennessee

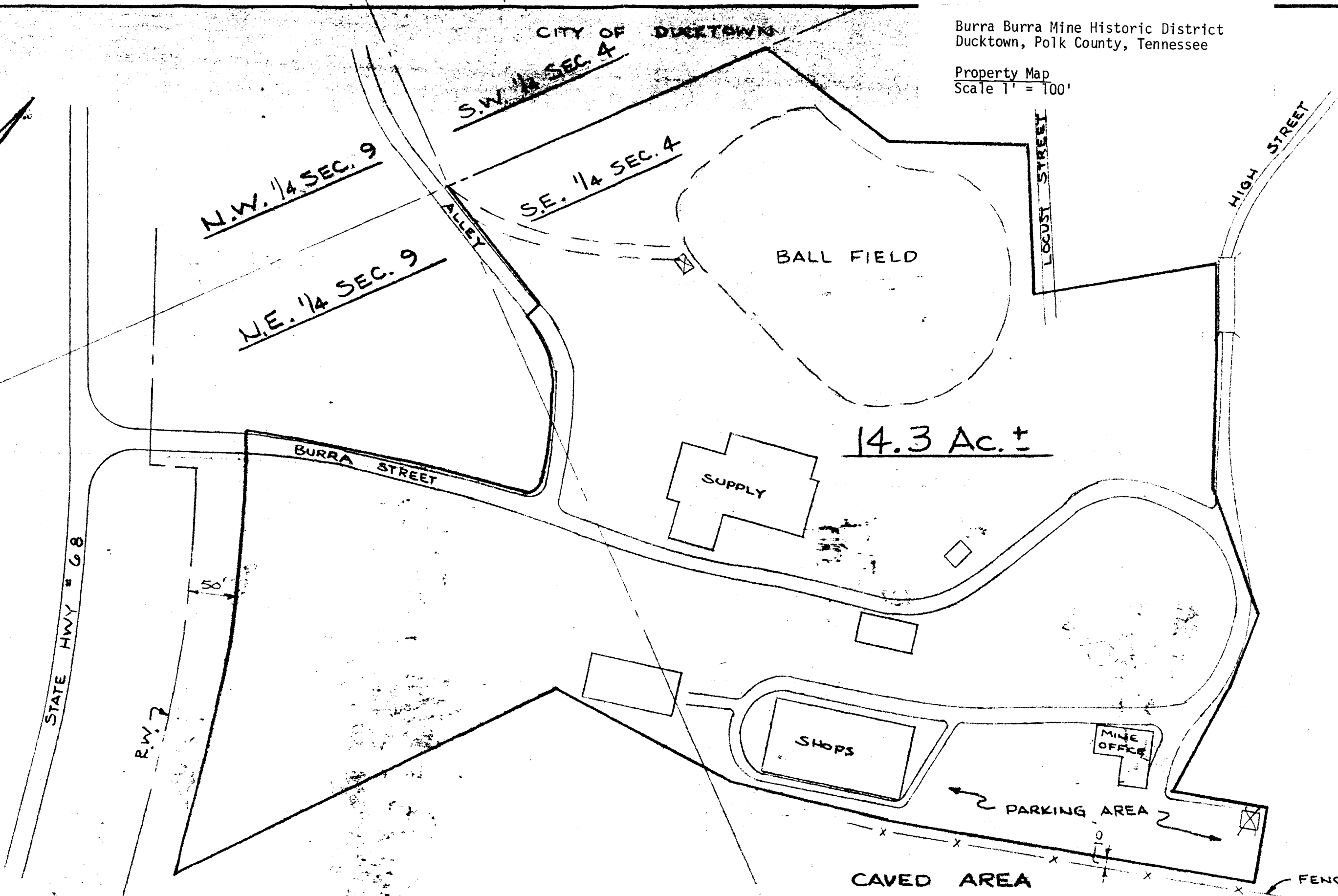
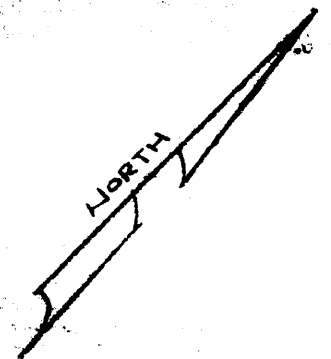
SKETCH MAP (not drawn to scale)

1. Mine Office (museum)
2. Machine Shop
3. Plate Shop
4. Change House
5. Storage Building
6. Derrick
7. Ore Bins
8. Core House
9. Bit House
10. Powder House
11. Hoist House
12. Boiler House
13. Clinic
14. Mine Entrance (Sealed)
15. Baseball Field



Burra Burra Mine Historic District  
 Ducktown, Polk County, Tennessee

Property Map  
 Scale 1" = 100'



PROPOSED DUCKTOWN-BASIN  
MUSEUM PROPERTY

CITIES SERVICE COMPANY  
 COPPERHILL OPERATIONS  
 COPPERHILL TENNESSEE

DRAWN BY FDR DATE 7-14-80 SCALE 1" = 100'

CHECKED \_\_\_\_\_ ENG. \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

B-0-103-3800-06

NO.	DATE	BY	APP.	REVISIONS

REV