Form No. 10-300 REV. (9/77)

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

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SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

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7 DESCRIPTION

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DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Staats Mill Covered Bridge, constructed in 1887 across the Tug Fork of Big Mill Creek in Jackson County, West Virginia, is an impressive and historically significant example of a late 19th century timber covered bridge constructed on the patented Long truss system.

Constructed by H. T. Hartley, a prominent local builder of the era, the Staats Mill Covered Bridge has a total length of 97 feet, excluding the overhang of the eaves, and has a clear span between abutments of 85 feet 11 inches. The main structure of the Covered Bridge consists of two large timber trussess framed on the system patented by Stephen Long in 1830. The distinctive feature of Long trussess are the "X" braced diagonals in each of the panels. In the case of this covered bridge, there are 11 such panels; each 8 feet 7 inches long and 14 feet 3 inches deep. The timber work on the trusses is beautifully executed and is probably the most noteworthy part of the entire structure.

The bridge floor was originally framed with transverse timber floor beams supported at the panel points of the truss. These beams carries longitudinal timber stringers surmounted by a timber deck. Throughout the years the bridge has undergone a number of modifications. The latest, and most extensive, was carried out in 1971 when the entire deck was cut away and a new three span steel girder bridge was constructed inside the original truss work. During this modification two steel bents were also added in mid-stream to support the three span steel girders. A laminated 2 by 4 inch timber deck was installed on the steel floor beams and provided with an asphalt overlay as a wearing course.

Like most 19th century timber bridges, the Staats Mill bridge is, of coarse, covered. Vertical siding covers the entire truss work on both sides of the bridge except for a space under the eaves which acts as a clerestory to provide light to the inside of the bridge. The bridge was apparantly painted, until recently, a traditional barn red. The Staats Mill Bridge is covered with a simple pitched roof sherardized with a standing seam metal surface supported on timber girters and rafters. Because of the large exposed side area, a horizontal truss was usually incorporated in the roof structure of covered bridges to resist lateral wind loads. These trusses traditionally consisted of transverse timbers and diagonal cross bracing firmly secures by wooden pegs, called "treenails," and wedges. It is practically certain that such a bracing was part of the original Staats Mill Covered Bridge structure. However, all that remains today are loosely fastened diagonals that serve little purpose for resisting This lack of horizontal stiffness at the level of the eaves lateral loads. has caused the main trusses to lean somewhat out of the vertical.

The abutments consist of full height cut stone, done locally, which supports both the original trusses and the new steel girders. This masonry work is a handsome adjunct to the timber trusses, vertical siding and pitched roof of the bridge.

The Staats Mill Covered Bridge is an excellent example of 19th century covered bridges, planned and executed locally to serve the transportation needed of a growing agricultural area.

8 SIGNIFICANCE

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_1900-	COMMUNICATIONS		POLITICS/GOVERNMENT	OTHER (SPECIFY)
X1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY.	XTRANSPORTATION
_1700-1799	ART	XENGINEERING	MUSIC	THEATER
_1600-1699	XARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN
1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	LAW	SCIENCE
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
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STATEMENT OF SIGNIFICANCE

The Staats Mill Covered Bridge is an excellent example of that unique American development, one of the great American contributions to structural engineering; the covered timber bridge.

When the Staats Mill Covered Bridge was constructed in Jackson County, West Virginia in 1887, it was only the latest of many such wooden structures to dot the countryside of West Vriginia and the United States. Today, however, the Staats Mill Bridge, indeed, covered bridges in general, are rapidly becoming an "endangered species." In the past 25 years West Virginia has witnessed the disapperance of more than 40 covered timber bridges. Of this once plentiful, even common, genre of structures, only 18 remain in this state.

The Staats Mill community of Jackson County, West Virginia, was founded by the Staats family. Abraham Staats (1750-1826) and his wife Ann King Staats (1755-1811) were the progenitors of the Staats family in Jackson County. Abraham served in the Revolutionary War. Their son Cornelius served in the War of 1812 and married Ann Carney. They were the parents of Issac Staats, who built the first water powered mill on Tug Fork of Big Mill Creek at the site that came to be known as Staats Mill. The present covered bridge was built adjacent to the mill and near the store, both owned by Enoch Staats, the son of Issac Staats. Thus, the bridge site has played an important role in the history and development of Jackson County since the 18th century.

In 1887 the Jackson County Court, under the presidency of George W. Shinn, appointed Shinn, George I. Walker, and S.M. Rader to select a site for the proposed bridge over Tug Fork of Big Mill Creek. The bridge at Hardesty's Mill over Tug Fork was adopted as a model and the stone work was built by Quincy and Grim, local masons at a cost of \$710.40. The wood superstructure was constructed by local builder H. T. Hartley for \$903.95, and Enoch Staats made the dirt fills for the approaches for the sum of \$110.00. The total cost of the Staats Mill Covered Bridge was \$1,788.35.

The bridge was constructed according to the Long System, patented by Stephen Long in 1830. For spans up to 100 feet Queen, King and multiple King Post trusses were popular in the Virginias. For longer spans the familiar Burr arch-truss system was the usual solution employed by the craft-trained bridge builders of the 19th century. However, several notable bridges were constructed with Long trusses and for spans over 100 feet these trusses were often combined with an arch to reduce deflections caused by loads, creep and shrinkage of the wood and movement of the joints.

It is not known why H. T. Hartley selected the Long system for the Staats Mill

9 MAJOR BIBLIOGRAPHICAL REFERENCES

- Allan, Richard S., <u>Covered Bridges of the Northeast</u>, Stephen Greene Press, Brattleboro, Vt. 1957.
- Allan, Richard S., <u>Covered Bridges of the Middle Atlantic States</u>, Stephen Greene Press, Brattleboro, Vt., 1959

"American Wooden Brid	lges, " History and F	leritage Com	mittee, ASCE, 197	4
10 GEOGRAPHICA	L DATA			
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VERBAL BOUNDARY DE	SCRIPTION	· · · · · · · · · · · · · · · · · · ·		
The Staats Mill Cover	ed Bridge is located	l 8.7 miles	southeast of Ripl	ey, Jackson County,
West Virginia, on Rou	ite 40 at Tug Fork of	Big Mill C	reek. The coordi	nates of the bridge
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ORGANIZATION Historic	Preservation Unit		DATE	
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Capitol	Complex		(304) 348	-0240
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Charlest	on	• .	West Virg	inia
12 STATE HISTOR	IC PRESERVATIO	N OFFICE	R CERTIFICAT	ION
THE EV	ALUATED SIGNIFICANCE O	F THIS PROPERT	Y WITHIN THE STATE IS	:
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As the designated State Histor	ic Preservation Officer for the	National Historic Register and cer	Preservation Act of 1966	(Public Law 89-665), I
criteria and procedures set for	th by the National Park Service			
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STATE HISTORIC PRESERVATIO	N OFFICER SIGNATURE	arener	moran	3/26/79
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HEREBY CERTIFY THAT T	HIS PROPERTY IS INCLUDED	IN THE NATION	IAL REGISTER	
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The KEEPER OF THE NATIO	NAL REGISTER		1.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ATTEST Conna Spice S	aye		DATE 5-	29-79
CHIEF OF REGISTRATIO	Poordinator			

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM



STAATS MILL COVERED BRIDGE, STAATS MILL, JACKSON COUNTY

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CONTINUATION SHEET	ITEM NUMBER	0	PAGE	2	
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Bridge. In addition, he framed the bridge without the use of stiffening arches, despite the fact that the span was nearly 100 feet. The result was and is an outstanding example of a pure Long Truss covered bridge of noteable span, executed by craftsmen of considerable skill. It's architectural beauty, as well as it's utility in providing transportation for the region, made the Staats Mill Covered Bridge a source of pride for the people of Jackson County and West Virginia. UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

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STAATS MILL COVERED BRIDGE, STAATS MILL, JACKSON COUNTY

CONTINUATION SHEET	ITEM NUMBER	9	PAGE	2	
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Maintaince Reports, Staats Mill Bridge, West Virginia Department of Highways.

Report on Staats Mill Covered Bridge, U.S. Soil Conservation Service, 1978



11. STAATS MILL COVERED BRIDGE













11. STAATS MILL COVERED BRIDGE