

United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Brouilletts Creek Covered Bridge

other names/site number S Hill Covered Bridge, Furnace Road Bridge

2. Location

street & number County Roads 100W and 1700S over Brouilletts Creek N/A not for publication

city or town Clinton vicinity

state Indiana code IN county Vermillion code 165 zip code 47884

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register criteria. I recommend that this property be considered significant nationally statewide locally. (See continuation sheet for additional comments.)

Signature of certifying official/Title _____ Date _____
Indiana Department of Natural Resources
 State of Federal agency and bureau _____

In my opinion, the property meets does not meet the National Register criteria. (See continuation sheet for additional comments.)

Signature of certifying official/Title _____ Date _____
 State or Federal agency and bureau _____

4. National Park Service Certification

I hereby certify that the property is:	Signature of the Keeper	Date of Action
<input type="checkbox"/> entered in the National Register. <input type="checkbox"/> See continuation sheet.	_____	_____
<input type="checkbox"/> determined eligible for the National Register <input type="checkbox"/> See continuation sheet.	_____	_____
<input type="checkbox"/> determined not eligible for the National Register.	_____	_____
<input type="checkbox"/> removed from the National Register.	_____	_____
<input type="checkbox"/> other, (explain:)	_____	_____

Brouilletts Creek Covered Bridge
Name of Property

Vermillion Co., IN
County and State

5. Classification

Ownership of Property
(Check as many boxes as apply)

- private
- public-local
- public-State
- public-Federal

Category of Property
(Check only one box)

- building(s)
- district
- site
- structure
- object

Number of Resources within Property
(Do not include previously listed resources in the count.)

Contributing	Noncontributing	
0	0	buildings
0	0	sites
1	0	structures
0	0	objects
1	0	Total

Name of related multiple property listing
(Enter "N/A" if property is not part of a multiple property listing.)

N/A

**Number of contributing resources previously listed
in the National Register**

0

6. Function or Use

Historic Functions
(Enter categories from instructions)

TRANSPORTATION: road related

Current Functions
(Enter categories from instructions)

TRANSPORTATION: pedestrian related

OTHER: scenic attraction

7. Description

Architectural Classification
(Enter categories from instructions)

OTHER: Burr Arch Truss

Materials
(Enter categories from instructions)

foundation STONE: sandstone

walls WOOD: weatherboard

roof METAL: steel

other METAL: steel

Narrative Description

(Describe the historic and current condition of the property on one or more continuation sheets.)

Brouilletts Creek Covered Bridge
Name of Property

Vermillion Co., TN
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- A** Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B** Property is associated with the lives of persons significant in our past.
- C** Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D** Property has yielded, or is likely to yield, information important in prehistory or history.

Criteria Considerations

(Mark "x" in all the boxes that apply.)

Property is:

- A** owned by a religious institution or used for religious purposes.
- B** removed from its original location.
- C** a birthplace or grave.
- D** a cemetery.
- E** a reconstructed building, object, or structure.
- F** a commemorative property.
- G** less than 50 years of age or achieved significance within the past 50 years.

Narrative Statement of Significance

(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

Bibliography

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # _____
- recorded by Historic American Engineering Record # _____

Areas of Significance

(Enter categories from instructions)

ENGINEERING
TRANSPORTATION

Period of Significance

1879-1944

Significant Dates

1879

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

Daniels, Joseph J.

Primary location of additional data:

- State Historic Preservation Office
- Other State agency
- Federal agency
- Local government
- University
- Other

Name of repository:

Vermillion Co. Auditor's Office

Brouilletts Creek Covered Bridge
Name of Property

Vermillion Co., IN
County and State

10. Geographical Data

Acreage of Property Less than one acre.

UTM References

(Place additional UTM references on a continuation sheet.)

1

1	6
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4	5	8	6	1	0
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4	3	8	7	1	2	0
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Zone Easting Northing

3

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Zone Easting Northing

See continuation sheet

Verbal Boundary Description

(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification

(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title Arthur Bonwell, Member

organization Vermillion County Improvement Association date 2-4-94

street & number 175 W. Redwood telephone 317-665-3753

city or town Dana state IN zip code 47847

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.

A Sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional Items

(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of SHPO or FPO.)

name Vermillion County Commissioners

street & number _____ telephone _____

city or town _____ state _____ zip code _____

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 *et seq.*).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

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The Brouilletts Creek (S Hill) Covered Bridge is a Burr Arch timber structure built by J.J. Daniels in 1879. The trusses are made of top and bottom chords with vertical posts and diagonals spaced evenly along the length, in twelve panels of 10' 10 1/2" each making a total span of 132 1/2' including an approach overhang of 12 1/4' at each end, the total length is 157'.

The posts are 7 1/2" X 9 1/4". Diagonals are 7 1/2" X 6 1/2". The floor beams are 4" X 12". Unlike other of Daniels' similar bridges in Vermillion County, the cross bracings are set into the top and bottom of the vertical posts without iron shoes, instead a 2" X 4" is spiked to the post under it.

The upper chords are 9" X 9" and are spliced every three panels. The lower chords are doubled 6" X 12" members spliced every four panels, making them 43' long. The 2" X 12" wheel guards or hubboards are 16' apart, the specified width of the roadbed. The upper chords are linked by wood X braces and iron tie rods which stand 13' above the road deck. Truss frames stand a total of 16 1/2' high. The roof pitch is 1/4 with two foot eaves. The original roofing was specified to be "the best quality of pine shingles laid 4 1/2 inches to the weather" but the few shingles remaining have been covered with corrugated sheet steel.

The siding was to be 1" X 12" dressed poplar nailed on vertically to lines of stakes having each joint covered with a 3" batten. A space of 14" is left open at the top to admit light. There are several open windows, 36" X 30", spaced on alternating sides every other panel. Portals have segmental arched openings formed by cutting the siding to an arched shaped. This was often a feature of Daniels' bridge portals. Some of the wood siding has been replaced with sheet metal roofing painted barn red to match the wood siding. Much of the wood siding is deteriorated or missing.

The arch rings are bolted to the vertical posts on the 7 1/2" dimension and are thus 7 1/2" apart for the most of the length. the arch pairs are splayed out at the ends and are 30" apart where they bear on the stone abutments to improve stability.

The lower chords, tension members, are double 6" X 12"s four panels long and spliced with what Daniels called a double hook, a

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Brouilletts Creek Covered Bridge
Vermillion County, Indiana

notched arrangement bolted together with four bolts and a 3" X 3/4" thick iron strap 42" long, and an "iron jib of 1/2 by 2 inches set in the chord flush for each bolt to bite against".

Per the specifications: "The plates will be 8 X 10 inches, they will receive the tops of the posts in mortices 5 inches deep and in boxes 2 inches deep. the posts will be 8 X 10 notched 1 inch where they connect with the lower chords and having a tendon 4 X 5 inches at the top end. The main braced will be 7 X 8 inches, held in place by a 6 inch spike. the lateral braces above and below will be 6 X 6 inches trussed by a rod of 7/8 Iron. The arches will be 6 X 16 inches. They will be confined to the posts at each intersection by two bolts of 7/8 Iron and each piece must sit in a cast shoe weighing 16 lb where it rests against the abutments. The floor beams are 4 X 12 inches 5 feet apart and bolted to the chords at each end by a 5/8 bolt. The joists are 3 X 6 inches eight abreast and spiked to the beams. The flooring is 2 inch thick laid loose on the joists and held in place by a plank and binder at each end. A wheel guard of 2 X 12 inches is spiked to the posts at each side, the length of the bridge."

The masonry "will be built of the same stone in the vicinity, it must be well cut to bids and points, well bounded with a sufficient number of headers, and all laid in courses, mortared and full grouted with live mortar composed of one part good hydraulic cement and two parts of coarse sharp sand. No course of stone above ground will be received of less thickness than (12) twelve inches, but the stone below ground and the backing may be of thinner stone all well laid and mortared. The backing need not be cut. Each abutment must have 20 yards of rubble protection."

Since construction, the Brouilletts Creek Covered Bridge has been modified to strengthen it. Adjacent to about a third of the floor beams, either railroad ties or 8" I-beams have been added. On the south end, a concrete apron has been added to the abutment to lessen erosion by the creek. Recent years have seen the bridge fall into disrepair. Although deteriorated, the Brouilletts Creek Covered Bridge still has its characteristic Burr Arch truss

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Brouilletts Creek Covered Bridge
Vermillion County, Indiana

intact. The truss work is the key feature to the historic and architectural significance of the span.

Section 8-Statement of Significance

The Brouilletts Creek (S Hill) Covered Bridge meets Criteria A and C. Under Criterion C, the bridge has statewide significance as good example of the work of master bridge builder Joseph J. Daniels. It is one of only 57 Burr Arch truss covered bridges left in Indiana, and is one of four remaining covered bridges in Vermillion County. The bridge provided a significant transportation link for area farmers across Brouilletts Creek.

The Brouilletts Creek Covered Bridge was built in 1879 and is also known as the S Hill Covered Bridge. The County Commissioners ordered the span to cross the creek "at or near the point where the old bridge was located." The site is at the intersection of the old Clinton and Paris Highway and the Indiana Furnace Road. the roads merge and cross the creek at this point, connecting southern Clinton Township with the largest town in the township, Clinton. The iron furnace for which the name was discontinued by the Civil War, but the bridge at this location continued to be an important access point until bypassed in 1984.

On the 7th of June in 1879 the Board of Commissioners being "of the opinion that a highway bridge at the point named is much needed by the public and the same ought to be built, it (was) therefore ordered by the board that a substantial Wagon Bridge be built...at the expense of the County." The span was to be 120 feet between abutments with a 16 foot wide road bed. The bridge was to be either wood or iron or wood and iron combined.

Daniels bid of \$3,770 to build the foundations and superstructure was accepted. His offer included a bid for another bridge at Norton Creek for \$2,507. The bridge was accepted by the Commissioners after making a personal examination on December 17, 1879, some 4 months and 4 days after letting the contract on August 13th.

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Brouilletts Creek Covered Bridge
Vermillion County, Indiana

Joseph J. Daniels, born in 1826 in Marietta, Ohio, became one of Indiana's leading timber bridge builders in the mid to late nineteenth century. Daniels settled permanently in Parke County in 1861 and constructed about 60 covered bridges during his career. Daniels died in 1916; his last bridge was finished in 1904. Along with the Kennedy family and J.A. Britton, Daniels is considered one of Indiana's most important bridge builders. As with these other builders, Daniels favored the Burr Arch truss. Most of Indiana's covered spans are Burr Arch structures, but Daniels added his own touch to the basic Burr Arch system. According to Gould's Indiana Covered Bridges Thru the Years, Daniels often experimented with the Burr Arch by adding iron tie rods, iron shoe pockets for the diagonals, and iron abutment plates for the ends of the arch timbers. Other builders stayed with the traditional wood timber system. Although the Brouilletts Creek span lacks the diagonal shoe pockets, it does feature the tie rods and abutment plates used by Daniels. Also, the segmental arch shape of the portals was a Daniels trademark. Despite its deterioration, the Brouilletts Creek Covered Bridge still retains the features which make it a good example of Daniels' work.

The bridge was in service until 1984 (105 years) when adjacent concrete bridge was built. Many people come to the site to picnic and fish. A county park has been proposed for the bridge and site.

Section 9-Bibliography

Biographical and Historical Record of Vermillion County, Indiana.
Chicago: Lewis Publishing Co., 1888.

Gatewood, Arthur Jr. Indiana Covered Bridge Location Guide.
Fortville, IN: Indiana Covered Bridge Society, 1988.

Gould, George E. Indiana Covered Bridges Thru the Years.
Indianapolis: Indiana Covered Bridge Society, 1977.

Harvey, Max. Covered Bridges of Parke, Putnam, Vermillion, Fountain, Montgomery, and Vigo Counties, Indiana. Wabash

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Brouilletts Creek Covered Bridge
Vermillion County, Indiana

Valley Printing, 1964.

Ketcham, Bryan E. Covered Bridges on the Byways of Indiana.
Oxford, OH: Oxford Printing, 1949.

Vermillion County Commissioners' Record, 1879, June 7, August 12,
December 17. Vermillion County Courthouse, Newport, IN

Weber, Wayne. Covered Bridges in Indiana. Midland, MI: Northwood
Institute, 1977.

Section 10-Geographical Data-Verbal Boundary Description

An area of Clinton Township, Vermillion County, Indiana, located at the included UTM point, including the right of way of Brouilletts Creek Covered Bridge (also known as the S Hill Covered Bridge), its superstructure, fieldstone abutments, and wing walls, including 15 feet of the approaches on the north and south banks of Brouilletts Creek.

Boundary Justification

The boundary includes the Burr Arch truss bridge and its stone abutments and wing walls.

