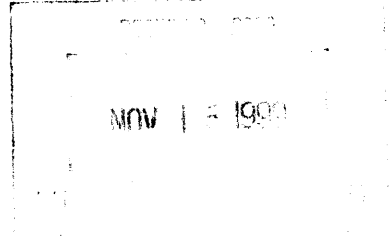


United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
REGISTRATION FORM

1585



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 any 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 N/A
other names/site number South Dakota Dept. of Trans. Br. No. 52-824-300

2. Location

street & number Local road over the Cheyenne River not for publication N/A
city or town Wasta Vicinity X
state South Dakota Code SD county Pennington code 103 zip code 57791

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, 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.)

Jay D. Vogt
Signature of certifying official

10-22-99
Date

State or 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 commenting or other official

Date

4. National Park Service Certification

I hereby certify that the property is:

entered in the National Register.

See continuation sheet

determined eligible for the National Register.

See continuation sheet

determined not eligible for the National Register

removed from the National Register.

other,

(explain:)

for
Signature of the Keeper Wesley A. Beal Date of Action 12/17/99

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

Contributing

Noncontributing

0

0

Buildings

0

0

Sites

1

0

Structures

0

0

Objects

1

0

Total

Number of contributing resources previously listed in the National Register 0

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.) Historic Bridges in South Dakota

6. Function or Use

Historic Functions (Enter categories from instructions)

Cat: Transportation Sub: Road-related (vehicular)

Current Functions (Enter categories from instructions)

Cat: Transportation Sub: Road-related (vehicular)

7. Description

Architectural Classification (Enter categories from instructions)

Other: Warren Deck Truss

Materials (Enter categories from instructions)

Foundation Concrete
Roof _____
Walls _____
Other Metal; steel

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

See Continuation Sheets

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.)

- A owned by a religious institution or used for religious purposes.
- B removed from its original location.
- C a birthplace or a 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.

Areas of Significance (Enter categories from instructions)

Engineering

Period of Significance

1940

Significant Dates 1940

Significant Person N/A

Cultural Affiliation N/A

Architect/Builder Unknown

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

See Continuation Sheets

9. Major Bibliographical References

(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 #

Primary Location of Additional Data

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

Name of repository: SD Department of Transportation

10. Geographical Data

Acreage of Property Less than one acre

UTM References

(place additional UTM references on a continuation sheet.)

1	<u>13</u>	<u>708080</u>	<u>4883940</u>	3	<u> </u>	<u> </u>	<u> </u>
	Zone	Easting	Northing		Zone	Easting	Northing
2	<u> </u>	<u> </u>	<u> </u>	4	<u> </u>	<u> </u>	<u> </u>

See continuation sheet

Verbal Boundary Description (Describe the boundaries of the property on a continuation sheet.) See Continuation Sheet

Boundary Justification (Explain why the boundaries were selected on a continuation sheet.) See Continuation Sheet

11. Form Prepared By

name/title Jennifer Traeger/Historian and Wayne Rosby/Engineer
organization Renewable Technologies, Inc. date August 1990
street & number 510 Metals Bank Building telephone (406) 782-0494
city or town Butte state MT zip code 59701

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)

Bridge No. 52-824-300

Name of Property

Pennington County, South Dakota

County and State

Property Owner

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

name _____
street & number _____ telephone _____
city or town _____ state SD 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 the 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 Project (1024-0018), Washington, DC 20503.

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National Register of Historic Places Continuation Sheet

Section number 7 Page # 1

Bridge Number 52-824-300 is located two miles east of Wasta and carries a local road over the Cheyenne River. The bridge has four main spans (150 feet each), which sit on concrete filled, riveted steel caissons. In addition to the main spans, the bridge has six approach spans. The one west stringer approach span sits on a concrete filled steel caisson and a solid concrete abutment. The five east steel stringer approach spans sit on four concrete filled caissons and a solid concrete abutment.

The main spans are comprised as follows: the upper chords consist of two steel channel sections riveted with a continuous steel cover plate along their upper flanges and with batten plates riveted along their lower flanges; the lower chords consist of two steel channel sections riveted with batten plates top and bottom, the lower chords of the five center panels of each span are the same with a steel I-beam riveted to the flat backs between the two channel sections; the verticals and the diagonals consist of steel I-beams riveted with gusset plates. The sway struts consist of two pairs of angle sections riveted to the lower chords with batten plates. The sway bracing consists of steel angle section cross-bracing. The bottom lateral bracing is angle section cross-bracing. The deck of the main span, which is concrete integral with steel I-beam stringers and steel plate bridging, sits on top of cantilevered steel I-beam floor beams which are riveted on top of the upper chords. The concrete deck of the approach spans sit on top of steel I-beam floor beams which in turn are riveted atop steel I-beam stringers.

The railing is comprised as follows: the vertical posts are steel I-beams welded to the floor beams; the posts have a steel channel section horizontal member welded on top; there are two additional horizontal members welded to the inside of the posts. One of these, just below the channel section, is a channel section with a perpendicular extension of the flanges. The other, below the first, is an H-section with the upper half of one flange missing.

The bridge retains excellent integrity.

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National Register of Historic Places Continuation Sheet

Section number 8 Page # 2

Bridge No. 52-824-300 is being nominated to the National Register of Historic Places as part of the "Historic Bridges in South Dakota" Multiple Property Nomination. It is related to the historic context of "Historic Bridges in South Dakota, 1893-1943" and is classified with the associated property type for iron and steel frame bridges. This bridge is individually eligible for the National Register under Criterion C as the only example of a riveted Warren deck truss in South Dakota. The bridge retains excellent integrity.

Deck trusses, which have the roadway connected to the superstructure along the upper chords, were rarely used in South Dakota because they are better suited to crossings where the roadway is high above the river bottom. According to state records, this riveted Warren deck truss bridge was built in 1940.

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Bibliography:

South Dakota Structure Inventory and Appraisal Sheet, 8/2/88, page 591; bridge plans for FAP 177G in South Dakota DOT Bridge Dept.

Verbal Boundary Description:

The nominated property consists of a rectangle, 31 feet wide by 982 feet long, whose vertices coincide with the outside corners of the bridge abutments at each end of the bridge, and includes only the bridge superstructure and substructure.

Boundary Justification:

Because the bridge is located on a public road, there are no legal boundary lines for the ends of the bridge. Therefore, these boundaries are drawn to encompass only the superstructure and substructure of the bridge itself.