United States Department of the Interior National Park Service

National Register of Historic Places Continuation Sheet

SUPP	LEMENTARY LISTING	RECORD	
NRIS Reference Number:	89ØØ2181 I	Date Listed:	1/4/90
Four Mile Creek Lattice Property Name		ris County	KS Stat e
Metal Truss Bridges in Multiple Name	Kansas 18611939	MPS	
		, ,	
Signature of the Keeper		//4/90 Date of Action	on
Signature of the Keeper Amended Items in Nomina Item #7, Description: or steel; and 2) Stone	ation: Materials include	////90 Date of Action	vrought iron
Amended Items in Nomina Item #7, Description:	mtion: Materials include		
Amended Items in Nomina Item #7, Description: or steel; and 2) Stone Item #8, Significance:	mtion: Materials include		

United States Department of the Interior National Park Service

National Register of Historic Places Registration Form

NOV 2 8 1989

This form is for use in nominating or requesting determinations of eligibility for Individual properties or districts. See instructions in *Guidelines* for Completing National Register Forms (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

(FORM 10-300a). Type an entities.				
1. Name of Property				
historic name Four Mile Cre	ek Lattice			
	Mile Creek Lat	tice		
2. Location 2 miles west & 1	mile north of	intersection of F.A	.S. 93 and F.A.S. 820	
street & number Unmarked county	road			not for publication
city, town Wilsey	THE STATE OF THE S			vicinity
state Kansas cod	e KS	county Morris	code 47	zip code 66873
			· · · · · · · · · · · · · · · · · · ·	
3. Classification				
Ownership of Property	Category	of Property	Number of Resou	rces within Property
private	buildin	· · · · · ·	Contributing	Noncontributing
X public-local	district			buildings
public-State	site		1-2 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	sites
public-Federal	x structu	re	1	structures
	Object			objects
			1	Total
Name of related multiple property li	istina.		Number of contril	outing resources previously
Metal Truss Bridges in				nal Register
Metal Ilabb Blidgeb III	Kanbab		noted in the Nanc	na register
4. State/Federal Agency Certi	fication			
Signature of certifying official State or Federal agency and bureau		on la varia		NEU 16,1989 Date
Otto of Foodial agency and baroas				
In my opinion, the property m	neets does n	ot meet the National Re	egister criteria. 🔲 See c	ontinuation sheet.
Signature of commenting or other off	ficial			Date
State or Federal agency and bureau				ngina disemberah disemberah pengangan seria kelabangan. Japan seria disemberah disemberah pengangan disemberah disembera
5. National Park Service Certif	lication			
, bereby, certify that this property is			······································	
entered in the National Register.				
See continuation sheet.	•	Seth Boland	d	1/4/02
determined eligible for the Natio	nal			
Register. See continuation she				· /
determined not eligible for the				
National Register.				
radional riegister.	all all refer to the second of			
removed from the National Regi	ster.			
other, (explain:)		a bir direkti i generali yang dan		
		Signature of	'eeper	□ te of Action

Historic Functions (enter categories from instructions) Transportation: Road Related (Vehicular): Bridge	Current Functions (enter categories from instructions) Transportation: Road Related (Vehicular): Bridge
7. Description	Managala (anna anna anna anna anna anna anna
Architectural Classification (enter categories from instructions)	Materials (enter categories from instructions)
Other: Lattice Pony Truss	foundationwalls
	roof
	other <u>Metal: Wrought Iron or Steel</u>

Describe present and historic physical appearance.

The Four Mile Creek bridge, erected Ca. 1890, is a pin connected lattice pony truss. The single span is 35 feet long and 16 feet wide. The deck rises 10 feet above the creek bed. It is located on a county road southeast of Wilsey. The bridge is located on a slight bend of the road and sits on a slight northeast-southwest alignment. This is often true with early bridges as this misalignment allowed a right angle approach to the river and a saving of money in both bridge and amount of fill required.

The members of a truss bridge are designated either as chord members or web members. Chord members are those mainly defining the outlines of the structure and they are termed lower or upper chord members depending on whether they are found at the bottom or the top of the structure. Members between the chords are web members. They are called posts or ties if they sustain compression or tension respectively. In the instance of the Four Mile Creek bridge, the chords and endposts are fabricated from angle stock rivited to a top cover plate. A bar lattice is used to form the two respective panels, which become a strong and stiff web. No external sway bracing is used in this particular design. Iron eye bars are wrapped around and over the top chord and attached to the bottom chord by the use of a pin. This consists of metal I beams suspended below the bottom chord at these pin connection points. Cast iron sunflowers form a decorative element on both panels. The bridge has not been modified and retains a high degree of its structural integrity.

er tying official has considered the significance of this properties and patients.	perty in relation to other properties: X statewide locally	
Applicable National Register Criteria A B x C	a	
Criteria Considerations (Exceptions)	D E F G	
Areas of Significance (enter categories from instructions) Engineering Transportation	Ca. 1890 Ca.	ificant Dates 1890 1890
Significant Person n/a	Architect/Builder [Canton Bridge Company]	

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

The Town lattice truss was patented by Ithel Town in 1820. The closely spaced diagonal members created a stiff web that was quite strong. The early examples were constructed of wood, but by the late 19th century a few were constructed of metal, generally wrought iron.

No construction data has presently been located about the Four Mile Creek bridge. It was selected as a candidate in this nomination as it is a good example of late lattice truss design with good integrity. It is also of a different design than the Norton county bridges as built by the Canton Bridge Company. The inverted king post which was attached to the former does not exist in this instance. It also features a pin connection and eyebar which would date it earlier than the turn of the century. Design elements such as the cast iron sunflowers at certain points in each panel and the remains of a builder's plate with the remaining letters "ON" would suggest that it is an early version of Canton's lattice truss design. Approximately ten lattice pony trusses are known to exist in Kansas. All are approximately the same length of thirty six feet. Eight of these ten bridges remain in Norton county.

The Canton Bridge Company, Canton, Ohio, was advertising in the Engineering Record, as early as 1876, but little is known about their early history. It was incorporated in 1891 by W. E. Sherlock, President, and V. H. Hammond, Vice President, and C. E. Timkler, Chief Engineer. It is possible that V. H. Hammond was a relative of Wrought Iron Bridge Company's D. Hammond. The company operated independently until 1925, when it was purchase by Massillion Steel Joist Company of Massillion, Ohio. In 1927 the two companies were merged into the Macomber Steel Company and the Canton Bridge Company name was dropped.

The Kansas Department of Transportation (KDOT) carried out a statewide inventory of historic bridges between 1980 and 1983. The bridges to be

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included were identified through computer printouts developed by KDOT, from information supplied by the counties (since almost all of the historic bridges were located on secondary rather than the primary road system), and by direct observation by field personnel. All bridges were inspected by KDOT personnel to verify the data on file. That information was jointly evaluated by representatives of KDOT, Kansas State Historical Society, and the State Historic Preservation Officer.

Each structure was evaluated using a points rating system adapted from the points evaluation rating developed by the Ohio Department of Transportation and Ohio Historic Preservation Office. Consideration was given to areas such as age, builder, number of spans, length, special features, history, integrity, surviving numbers, and preservation potential.

In many instances there is little information about individual structures. Often bridge plaques which may have contained information have been removed, or the county's records are not complete or have been destroyed. Due to the large numbers of similar structures there is often little to choose from in differentiating among individual bridges other than condition and the likelihood of preservation.

The purpose of the KDOT study and subsequent evaluation was to identify a representative selection of bridges of each class. Through this approach KDOT and KSHS hope to preserve for posterity some examples of each type.

		ding Companies, Washington, DC: Occasional Publication 4, 1984.
	man, Traces of the Past: A Fi ork: Charles Schribner's Sons	ield Guide to Industrial Archeology,
F.H.W.		ant Posterity, DePauw University, s, Indiana Dept. Natural Resources,
in Vir	ginia, Charlottesville: Virg	ic Inventory of Metal Truss Bridges ginia Highway & Transporation
Kesear	ch Council, 1975.	See continuation sheet
	entation on file (NPS):	
	determination of individual listing (36 CFR 67)	Primary location of additional data:
has been red	·•	x State historic preservation office
	sted in the National Register	Other State agency Federal agency
	etermined eligible by the National Register National Historic Landmark	Local government
	Historic American Buildings	University
		Other
recorded by	Historic American Engineering	Specify repository:
		Kansas State Historical Society
10. Geograph	ical Data	
Acreage of prop	erty less than one acre	
Zone East	0,4 1,2,0 4,2 7,5 8,0,0	B
		See continuation sheet
whose northebridge. Bed	ed property is located on the township 17 south, range 7 ea east corner is represented by ginning at the northeast corn	NE 1/4, NW 1/4, NE 1/4, NE 1/4, st on a tract measuring 35' x 16' the northeast corner of the er the boundary proceeds 35' and 16' southeast to the point of See continuation sheet
Boundary Justifi	cation	
The boundary	y includes only that area tha ed property.	t is historically associated with
		See continuation sheet
11. Form Pre		
		Soptombon 20 1000
organization street & number	Kansas State Historical Society	
city or town		telephone <u>(913) 296-3251</u> state <u>KS</u> zip code <u>66612</u>
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