NPS Form 10-900
United States Department of the Interior
National Park Service

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Nat. Register of Historic Places
National Park Service

OMB No. 1024-0018

936

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 National Register Bulletin, *How to Complete the National Register of Historic Places Registration Form.* 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 certification comments, entries, and narrative items on continuation sheets if needed (NPS Form 10-900a).**

1. Name of Property

Historic name East Badger Creek Culvert

Other names/site number Thomson Bridge; Barnes Bridge; East Badger Creek Bridge; KHRI #035-347

Name of related Multiple Property Listing Masonry Arch Bridges of Kansas

2. Location

Street & number 182nd Road approximately .3 miles east of 131st Road [ ] not for publication

City or town Winfield [x] vicinity

State Kansas Code KS County Cowley Code 035 Zip code 67156

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended,

I hereby certify that this _x_ 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 _x_ meets ___ does not meet the National Register Criteria. I recommend that this property be considered significant at the following level(s) of significance:

___ national ___ statewide _x_ local Applicable National Register Criteria: ___ A ___ B _x_ C ___ D

Patrick Zollner 11-10-15

Signature of certifying official/Title Patrick Zollner, Deputy SHPO Date

Kansas State Historical Society

State or Federal agency/bureau or Tribal Government

In my opinion, the property ___ meets ___ does not meet the National Register criteria.

Signature of commenting official Date

Title State or Federal agency/bureau or Tribal Government

4. National Park Service Certification

I hereby certify that this property is:

✓ entered in the National Register ____ determined eligible for the National Register

____ determined not eligible for the National Register ____ removed from the National Register

____ other (explain:)

for Edson H. Beall 12.29.15

Signature of the Keeper Date of Action

5. Classification

Ownership of Property
(Check as many boxes as apply.)

	private
X	public - Local
	public - State
	public - Federal

Category of Property
(Check only **one** box.)

	building(s)
	district
	site
X	structure
	object

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

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

Number of contributing resources previously listed in the National Register

N/A

6. Function or Use

Historic Functions
(Enter categories from instructions.)

Transportation/Road-related

Current Functions
(Enter categories from instructions.)

Transportation/Road-related

7. Description

Architectural Classification
(Enter categories from instructions.)

Other: Stone Arch Culvert

Materials
(Enter categories from instructions.)

foundation: Concrete
walls: Stone
roof: N/A
other:

Narrative Description

Summary

The East Badger Creek Culvert, built in 1905-1906, is a one-lane native limestone span over East Badger Creek in Cowley County, Kansas. The culvert is located on 182nd Road, approximately 3/10 mile east of 131st Road. It is approximately two miles east and two miles south of the edge of Winfield on the south border of the southwest quarter of Section 32, Township 32 South, Range 5 East (Figures 1 & 2). The culvert is nominated to the National Register of Historic Places under the Multiple Property Documentation Form (MPDF), *Masonry Arch Bridges of Kansas*. It is significant locally, is nominated under Criterion C in the area of Engineering as an example of a rural stone arch bridge type.

Elaboration

The East Badger Creek Culvert runs east to west on 182nd Road, spanning East Badger Creek. The deck of the culvert is approximately 29 feet long and 20 feet wide.[1] The span is supported by a single wide stone arch that is 20 feet long and 14 feet wide. The top of the arch is approximately nine feet above the water line. The arch rises from springer blocks reinforced with concrete pads set within East Badger Creek (photographs 1 & 2.) The concrete pads, likely added after initial construction, extend north and south of the width of the culvert. The springer rings, spandrel and most of the north and south walls are composed of limestone blocks.[2] A metal and concrete deck, added to the north side in 1994 to expand the width of the culvert, extends over the north wall, partially obscuring the stonework (photograph 4.) North stone stem walls, also built in 1994, support the new north deck. Modern concrete approaches are present on the culvert's south side. The east approach measures approximately 90 feet and the west approach measures approximately 36 feet.

Photographs 1 & 2. South side of the culvert.

[1] The culvert was originally 16 feet wide. The road bed was widened in 1994.
[2] Part of the west portion of the south wall has been patched with concrete.

Photographs 3 & 4. South plaque and north side of the culvert.

A carved stone plaque is located on the southeast wall (photograph 3.) It reads:

1906
W.M. HUSTON
C.A. HOWARD
T.H. CLOVER
Commissioners
JERRY HAMMON
Contractor & Builder
UDALL KANS.

The non-historic deck is gravel on concrete (photograph 5.) The south edge has a concrete rail approximately 24 inches tall and 12 inches wide.[3] A metal pipe runs along the south side of the culvert under the rail ledge.[4] The north side of has a 1994 ledge that measures approximately four feet wide. A modern metal guard rail lines the north side of the span.

[3] Cowley County has no records of the later concrete construction, which includes the deck and the pads at the base of the arch.
[4] This pipe was added after construction to hold utility wires.

Photograph 5. Deck.

The culvert is maintained by Cowley County. In 1994, it was widened and stem walls were added to support the addition. It is in good condition and retains its architectural integrity in form, placement and materials despite these alterations. It retains its original combination of limestone arch rings and limestone spandrel walls.[5] The culvert's configuration is a smaller version of the MPDF's description of the stone arch bridge property type: "The stone arch bridges included in this nomination consist of limestone arch rings which spring from and are disposed between abutments and piers. Limestone spandrel walls rest on these arch rings and are used to retain the earthen fill, which loads the arch. This earth loading allows for even distribution of the live loads and helps to strengthen the arch."[6]

[5] The configuration of this culvert is nearly identical to the Stewart Creek Bridge, built by Jerry Hammon in 1904 (Figure 5.)
[6] Larry Jochims, "Masonry Arch Bridges of Kansas" National Register of Historic Places Inventory—Nomination Form," 25 April 1985, 3.

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.
- [x] 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 old or achieving significance within the past 50 years.

Areas of Significance
ENGINEERING

Period of Significance
1905-06

Significant Dates
1906

Significant Person
(Complete only if Criterion B is marked above.)
N/A

Cultural Affiliation
N/A

Architect/Builder
Jerry Hammon--Builder

Period of Significance (justification)
The period of significance—1905-1906—encompasses the period of time during which the culvert was built.

Criteria Considerations (justification)
N/A

Narrative Statement of Significance

Summary

The East Badger Creek Culvert is nominated to the National Register of Historic Places under the MPDF *Masonry Arch Bridges of Kansas*. The culvert is locally significant, nominated under Criterion C in the area of Engineering, as it retains the distinctive historic characteristics of a locally built, rural stone arch span. Due to its size, the culvert was not included in the statewide survey of stone bridges conducted by the Kansas Department of Transportation (KDOT) during the early 1980s, but it embodies the type, period and method of construction of a rural stone arch span. The period of significance is 1905-1906, the time during which the culvert was built.

The impetus for this nomination came out of Section 106 mediation resulting from the proposed demolition of a stone culvert in Wabaunsee County. KDOT's proposal to demolish the culvert required mitigation. Cowley County, the owner of this property, agreed to nominate this culvert to mitigate for the loss of Wabaunsee County culvert.

Elaboration

The East Badger Creek Culvert is a small, representative example of several stone arch bridges and culverts built in Kansas in the early 1900s. The culvert retains its character-defining features of limestone arch rings and spandrels that spring from stone abutments, described in the MPDF.

Cowley County was carved out of Hunter County in 1867 and named for Matthew Cowley, First Lieutenant in Company I of the Ninth Kansas Calvary. The Cowley County area originally belonged to the Osage. The county was organized on February 8, 1870. On July 15,1870 the Osage lands were declared open for settlement and land claims were entered. Winfield, developed by the Winfield Town Company, was chosen as the county seat. The county is a mix of prairie and forest and approximately one-third is bottomland. The Arkansas River runs across the southwest corner of the county and several streams—among them the Walnut, Beaver, Grouse, Badger, Timber and Rock Creek rivers—lead to the Arkansas.[7]

According to Cowley County literature, the county has 18 stone arch bridges on public thoroughfares built between 1890 and 1935. The peak of building activity for stone bridges in the county was 1900 to 1910 when at least 11 were built. The MPDF states:

> Stone arch bridges were popular in Kansas for many reasons, a major one being that stone was often available locally. Thus a larger amount of the money expended for construction could be retained within the area than would be true with the purchase of a metal structure. It was also often possible to use local workers on the project.[8]

Historian A.T. Andreas refers to the qualities and the abundance of magnesium limestone in Cowley County, noting that it is easily cut but hardens after a brief exposure to air.[9] The wealth of the practical stone in the county likely inspired local bridge builders. Examples of stone arch bridges similar to the East Badger Creek Culvert include the 1900 Badger Creek Bridge located east of Winfield near 192nd and 121st Roads (Figure 3), the 1906 Timber Creek/Floral Bridge northeast of Winfield near 129th and 92nd Roads (Figure 4) and the 1904 Stewart Bridge east of Udall near K-15 and 51st Road (Figure 5).[10]

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[7] A.T. Andreas, *History of the State of Kansas* (Chicago: A.T. Andreas, 1883), http://www.kancoll.org/books/cutler/cowley/cowley-co-p1.html.
[8] Jochims, 4.
[9] Andreas.
[10] Jerry Hammon built the Stewart Bridge.

The Federal Highway Administration defines a bridge as any structure with a support span of more 20 feet long.[11] Historic references—county commissioner notes and newspaper articles—refer to this structure as a bridge but its size defines it as a culvert by today's standards. Additionally, any small span that is not registered in the National Bridge Inventory (NBI) Database is considered a culvert. The East Badger Creek Culvert is not registered in the NBI database. The structure is representative of stone culverts constructed in central Kansas during the early 1900s. These structures allowed road traffic to cross creeks and small streams.[12] Like the East Badger Creek Culvert, construction for the labor-intensive structures often used local stone and likely relied on local labor. The construction of arched stone culverts was very similar to that of stone arch bridges as defined in the MPDF, but on a smaller scale. Other stone culverts in Cowley County include one north of Dexter (Figure 6) and one east of Rock over Stalter Creek (Figure 7.) The Dexter span has a single stone arch base with concrete stem walls and railings that were likely added after initial construction. The Stalter Creek culvert is also a single stone arch structure with concrete added to support the footings.[13] A similar span is located in Washington County in north-central Kansas on Gypsum Road between 4th and 5th Roads (KHRI #201-86). The single stone arch span, built around 1920, is set directly in a tributary of the East Branch Parsons Creek.

Bridge builder Jerry Hammon constructed the East Badger Creek Culvert from late 1905 to early 1906. Cowley County commissioners W.M. Huston, T.H. Clover and C.A. Howard met on November 10, 1905. They opened bids for constructing two bridges—one over Timber Creek near Floral and one over Badger Creek in the southwest corner of Tisdale Township. Hammon was awarded the work for the Badger Creek span at the Chase Ford on the south line of Section 32, Township 32 South, Range 5 East.[14] *The Winfield Daily Free Press* reported:

> Jerry Hammon has received a contract from the county commissioners for the building of a 20 foot stone arch bridge four miles east and two south of Winfield. He put a bid on the bridge that is to be built near Floral and came within $15 of landing that job. He will begin work on his contract about the first of December.[15]

Hammon's work was completed by February 1906, when *The Winfield Tribune* noted:

> Jerry Hammon, of Udall, was a Winfield visitor Monday and called at the Tribune office to subscribe for 'the official county paper.' Mr. Hammon is a bridge builder and has just completed some work east of town. He has gone to Newkirk, Oklahoma, to take charge of some work that will occupy him several weeks.[16]

Hammon, born in 1859, lived in Udall. The 1900 federal census lists him as a laborer but the 1910 census is more specific, listing him as a stone mason.[17] Hammon was responsible for the construction of the Stewart Creek Bridge east of Udall in 1904.[18] In 1907, he was also hired to complete approaches to the Floral Bridge, which was begun in 1905 but not completed.[19]

The East Badger Creek Culvert is an example of several stone arch spans that were built over waterways in rural Cowley County between 1900 and 1906. Situated on a secondary road, the culvert retains its integrity in location, design, setting, workmanship, feeling, materials and association. It is eligible for listing in the National

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[11] *The Federal Register*, 14 December 2004, 650.305.
[12] Stone culverts were also built in Kansas for railroads.
[13] The Stalter Creek culvert appears to be in deteriorated condition.
[14] "County Commissioners Journal Book G," 306. On file at the Cowley County Courthouse. The Walter Sharpe Bridge Company was awarded the contract for the Floral bridge.
[15] *The Winfield Daily Free Press*, 20 November 1905, 5.
[16] *The Winfield Tribune*, 8 February 1906, 5.
[17] www.ancestry.com, accessed 23 June 2015.
[18] A plaque on the Stewart Creek Bridge is very similar to the plaque on the East Badger Creek Culvert listing Hammon as the contractor and builder.
[19] *The Winfield Tribune*, 14 March 1907, 3.

Register of Historic Places under Criterion C for its significance in the area of Engineering as part of the *Masonry Arch Bridges of Kansas* multiple property nomination.

9. Major Bibliographical References

Bibliography (Cite the books, articles, and other sources used in preparing this form.)

Andreas, A.T. *History of the State of Kansas*. Chicago: A.T. Andreas, 1883.

County Commissioners Journal Book G. On file at the Cowley County Courthouse.

Jochims, Larry. "Masonry Arch Bridges of Kansas" National Register of Historic Places Inventory—Nomination Form." 25 April 1985.

The Winfield Daily Free Press. 20 November 1905.

The Winfield Tribune. 8 February 1906; 14 March 1907.

www.ancestry.com.

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 # _____
____recorded by Historic American Landscape Survey # _____

Primary location of additional data:

____State Historic Preservation Office
____Other State agency
____Federal agency
____Local government
____University
_X_Other
Name of repository: **Cowley County Courthouse**

Historic Resources Survey Number (if assigned): _____

10. Geographical Data

Acreage of Property Less than one acre

Provide latitude/longitude coordinates OR UTM coordinates.
(Place additional coordinates on a continuation page.)

Latitude/Longitude Coordinates
Datum if other than WGS84:_____
(enter coordinates to 6 decimal places)

	Latitude:	Longitude:		Latitude:	Longitude:
1	37.215361	-96.909080	3		
2			4		

Verbal Boundary Description (describe the boundaries of the property)
The nominated property is located on an east-west section line in the SE ¼ of the SW ¼ of Section 32, Township 32S, Range 5E. The culvert is east of 131st Street on 182nd Street. The nomination boundary is defined by the culvert structure.

Boundary Justification (explain why the boundaries were selected)
The nominated property includes only the structure as defined by the latitude and longitude coordinates. This nomination does not include any property beyond the culvert.

11. Form Prepared By

name/title Susan Jezak Ford

organization Citysearch Preservation date 25 August 2015

street & number 3628 Holmes Street telephone 816-531-2489

city or town Kansas City state Missouri zip code 64109

e-mail citysusan@gmail.com

Property Owner: (complete this item at the request of the SHPO or FPO)

name Cowley County Public Works

street & number 311 East 9th Avenue telephone 620-221-5496

city or town Winfield state Kansas zip code 67156

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.460 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 100 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 Office of Planning and Performance Management. U.S. Dept. of the Interior, 1849 C. Street, NW, Washington, DC.

Additional Documentation

Submit the following items with the completed form:

Photographs

Photograph Log

Name of Property: **East Badger Creek Culvert**

City or Vicinity: **Winfield vicinity**

County: **Cowley** State: **Kansas**

Photographer: **Susan Jezak Ford**

Date Photographed: **22 June 2015**

Description of Photograph(s) and number, include description of view indicating direction of camera:

1 of 7: South side of the bridge; camera pointing northwest.
2 of 7: South side of the bridge; camera pointing northeast.
3 of 7: Bridge plaque; camera pointing northwest.
4 of 7: North side of the bridge; camera pointing southeast.
5 of 7: Bridge deck; camera pointing west.
6 of 7: Culvert north of Dexter, Cowley County.
7 of 7: Culvert east of Rock, Cowley County.

Figures

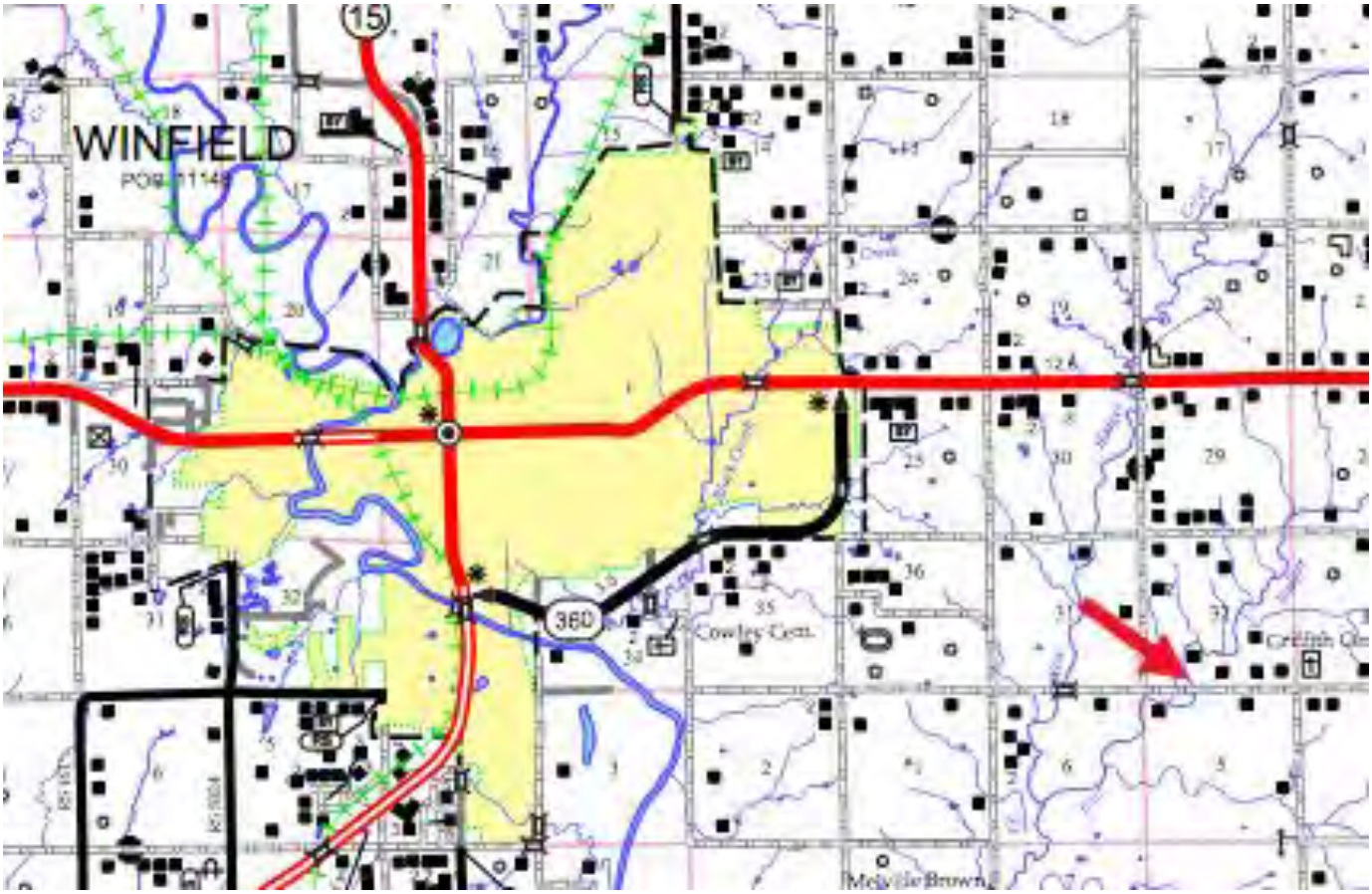

Figure 1. Culvert location on Cowley County map. (KDOT map)

Figure 2. Culvert site plan. (www.bing.com/maps accessed 7 July 2015)

Figure 3. Badger Creek Bridge (Susan Jezak Ford)

Figure 4. Timber Creek/Floral Bridge (Susan Jezak Ford)

Figure 5. Stewart Bridge (Susan Jezak Ford)

Figure 6. Cowley County culvert north of Dexter (KDOT)

Figure 7. Stalter Creek culvert east of Rock in Cowley County (KDOT)