

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Section number \_\_\_\_\_ Page \_\_\_\_\_

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: Various Date Listed: 9/30/88

<u>Property Name</u>	<u>County</u>	<u>State</u>
<u>Various</u>	<u>Various</u>	<u>Arizona</u>

Vehicular Bridges in Arizona  
Multiple Name

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This property is listed in the National Register of Historic Places in accordance with the attached nomination documentation subject to the following exceptions, exclusions, or amendments, notwithstanding the National Park Service certification included in the nomination documentation.

for Patrick Andrews  
Signature of the Keeper

9/30/88  
Date of Action

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**Amended Items in Nomination:**

There were several nominations included with this multiple property submission which defined and justified periods of significance extending into the less than fifty year old range to correspond with criterion A significance although the resources' dates of construction actually occurred well over fifty years ago. For all of these bridges, the period of significance should be concluded in 1938 to conform with National Register requirements. The following bridges are included in this category:

Petrified Forest, Querino, Hereford, Douglas Underpass, Dead Indian Canyon, Pumphouse Wash, Walnut Canyon, Fossil Creek, Black River, Salt River, Salt River Canyon, Reppy Avenue, Black Gap, Gila River, Park Avenue, Solomonville Road Overpass, Solomonville Road Overpass (Clifton), Gila Bend Overpass, Hassayampa River, Lewis and Pranty Creek, Mormon Flat, Fish Creek, Pine Creek, Sand Hollow Wash, Old Trails, Corduroy, Cedar Canyon, Holbrook, Jack's Canyon, Little Lithodendron Wash, Lithodendron Wash, St. Joseph, Woodruff, Cienega, Fourth Avenue Underpass, Sixth Avenue Underpass, Stone Avenue Underpass, Alchey Canyon, Devil's Canyon, Queen Creek (Florence Junction vicinity), Queen Creek (Superior vicinity), Kelvin, Mineral Creek, Sacaton Dam, San Tan Canal, Winkelman, Santa Cruz No. 1, Broadway, Hell Canyon, Little Hell Canyon, Lynx Creek, Verde River, and Walnut Grove. (Period of significance issues discussed with Pat Stein of the AZ SHPO.)

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**DISTRIBUTION:**

National Register property file  
Nominating Authority (without nomination attachment)

# HABS/HAER INVENTORY

1684

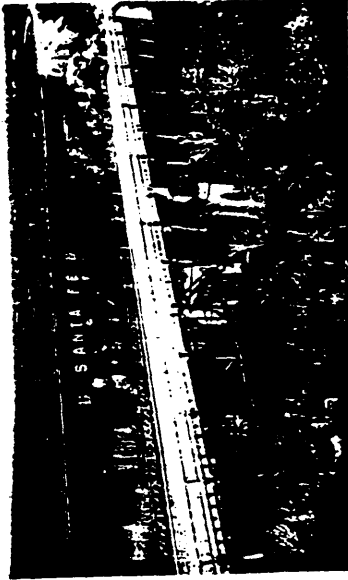
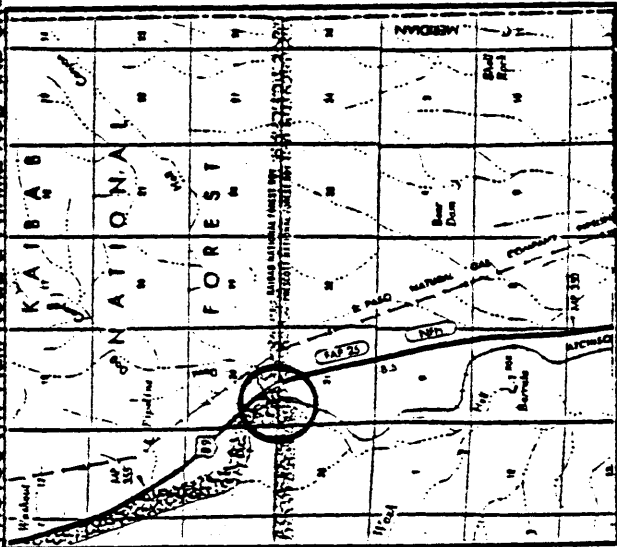
See "HABS/HAER Inventory Guidelines" before filling out the card.

<p><b>1. NAME(S) OF STRUCTURE</b> Little Hell Canyon Bridge</p> <p><b>2. LOCATION</b> Abandoned grade of U.S. 89 over Little Hell Canyon 8 miles northwest of Drake; SMI/4 S30 120N R1W Yavapai County, Arizona</p>	<p><b>3. DATE(S) OF CONSTRUCTION</b> 1923</p> <p><b>4. USE (ORIGINAL/CURRENT)</b> highway bridge / ranch road bridge</p> <p><b>5. RATING</b> NRHP eligible: local significance</p>
<p><b>6. CONDITION</b> fair</p> <p>owner: Yavapai County</p> <p>span number : 2 span length : 80.0' total length: 174.1' roadway wdt. : 18.0'</p> <p>superstructure: riveted steel, 8-panel Warren deck truss w/ verticals substructure : concrete abutments and wingwalls w/ solid concrete pier floor/decking : concrete deck over steel stringers other features: upper chord: 2 channels w/ cover plate and webbing; lower chord: 2 angles w/ batten plates; vertical: 4 angles w/ continuous plate; diagonal: wide flange / 2 angles w/ webbing; strut: 2 angles w/ webbing; lateral bracing: 1 angle; floor beam: 1 beam; steel lattice guardrails w/ concrete curbs.</p>	
<p><b>7. DESCRIPTION</b></p> <p>In the late 1910s, Yavapai County surveyed a route between Prescott and Ash Fork as a county road. After completing its design, however, the county board of supervisors decided to seek federal aid. The Arizona Highway Department then re-surveyed the route to meet federal specifications, divided the project into four sections (FAP 36, 36-B, 61 and 62) and over the next three years undertook the extensive 50-mile highway construction. One of the final phases of the project involved construction of a bridge over Little Hell Canyon, a ruggedly walled watercourse north of Drake. For this, the AHD bridge department engineered a medium-span riveted deck truss supported by concrete abutments and pier, to be located just upstream from the Santa Fe Railroad bridge. Early in 1923, AHD awarded the construction contract under FAP 62 to the Monarch Engineering Company of Denver for the Little Hell Canyon Bridge. Monarch began construction of the abutments on March 17 and completed grading the approaches on November 5. Total cost: \$25,851. The bridge carried traffic until its replacement in 1951 and now functions as a ranch road beside U.S. Highway 89.</p>	
<p><b>8. SIGNIFICANCE</b></p> <p>The Little Hell Canyon Bridge is historically significant as an integral part of the major regional highway which joined Phoenix with Prescott. Technologically, the bridge is noteworthy as an uncommon vehicular truss type. Eight deck trusses - five of which are Warrens - have been identified in the inventory. All were erected between 1923 and 1934, all spanned between 77' and 116', and all were designed and built either by the Arizona Highway Department of the Bureau of Public Roads, using industry-standard truss detailing. The Little Hell Canyon Bridge is one of two of the earliest of these (the other: Allentown Bridge). Abandoned and unaltered, it is an important early Arizona vehicular span.</p>	
<p><b>9. HISTORICAL DATA</b></p>	

10. NAME(S) OF STRUCTURE

Little Hell Canyon Bridge

11. PHOTOS (W/ FILM ROLL & FRAME NO.) AND SKETCH MAP OF LOCATION



LOCATION MAP  
 TAKEN FROM DEPARTMENT OF TRANSPORTATION  
 GENERAL HIGHWAY MAP



Fifth Biennial Report of the State Engineer of Arizona, 1918-1920 (n.p., 1920), page 53, 123.

Sixth Biennial Report of the State Engineer of Arizona, 1920-1922 (Phoenix: Manufacturing Stationers, Inc., 1922), pages 144, 166, 177-78.

Arizona Highways: 12:1925:26.

Field inspection by Clayton Fraser, 5 December 1986.

13. INVENTORIED BY:

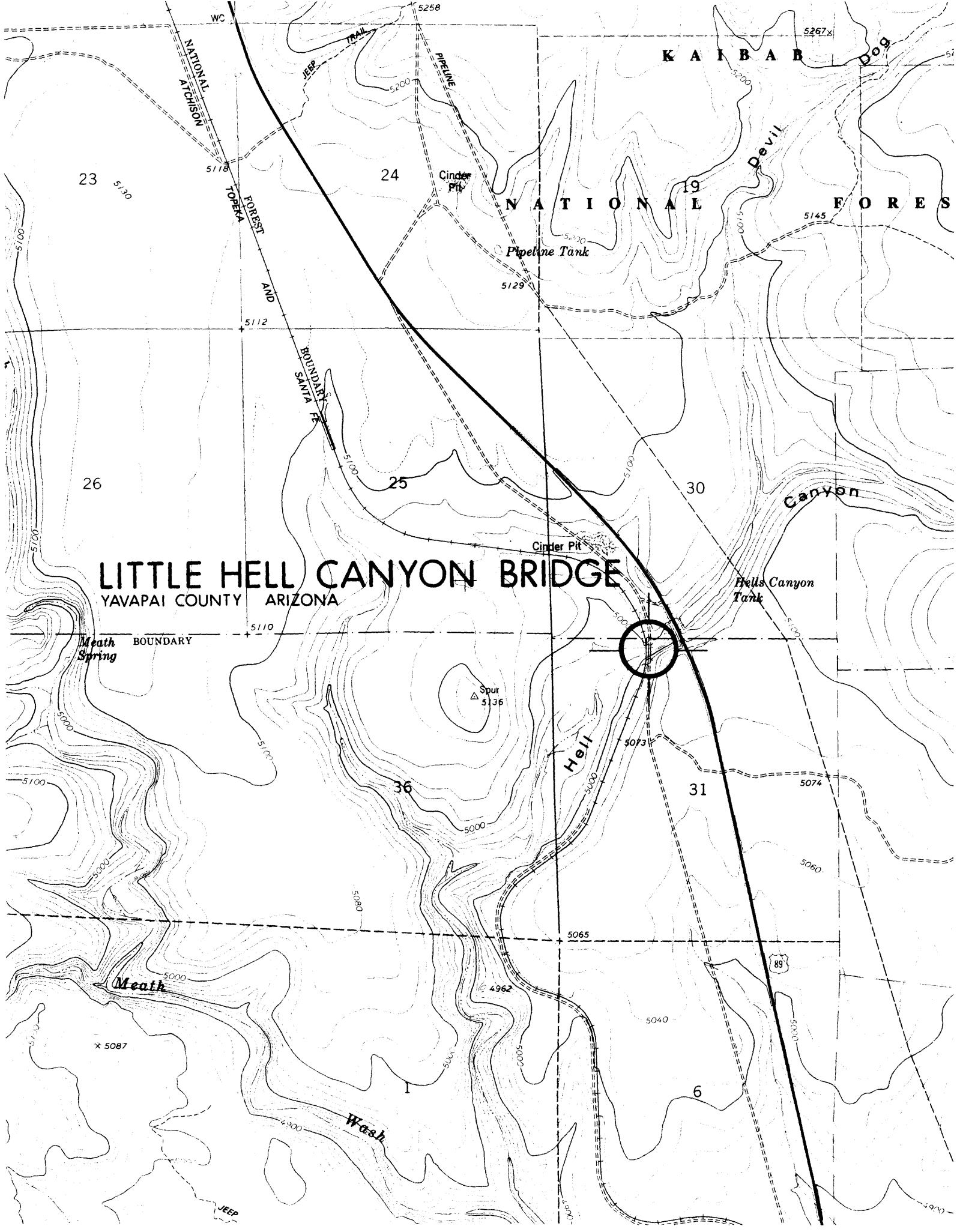
Clayton B. Fraser

AFFILIATION

Fraserdesign Loveland Colorado

DATE

1 April 1987



**LITTLE HELL CANYON BRIDGE**  
YAVAPAI COUNTY ARIZONA

K A I B A B

D O G

Devil

Canyon

Bells Canyon Tank

Hell

Meath

Wash

23 5130

24

19

F O R E S T

26

25

30

36

31

6

WC

5258

5267x

5118

5112

5110

5129

5100

5136

5073

5074

5060

5065

89

x 5087

4962

5040

5000

JEEP