

SOUTH FORK MALHEUR RIVER BRIDGE
(Bridge No. 25E33)
Spanning the South Fork Malheur River at
County Rd. B484 (Crane-Venator Rd.)
Crane vicinity
Harney County
Oregon

HAER No. OR-88

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PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD
Columbia Cascades Support Office
National Park Service
909 First Avenue
Seattle, Washington 98104-1060

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HISTORIC AMERICAN ENGINEERING RECORD REPORT

SOUTH FORK MALHEUR RIVER BRIDGE (No. 25E33)

HAER No. OR-88

Location: Spanning the South Fork Malheur River at milepost 22.06 (35.50km) on County Road #B484 (Crane-Venator Road), *Crane Vic.*, Harney County, Oregon

Township 36E Range 25S Section 10, Dunnean Quad
UTM Coordinates: 4806.750N, 395.90E

Date of Construction: 1964

Engineer: Unknown

Builder: Harney County, Oregon

Present Owner: Harney County

Present Use: County Road Bridge

Description: The South Fork of the Malheur (Crane-Venator) Bridge is a very rare example of a timber king post truss bridges in Oregon. In the context of Eastern Oregon, it is the only example of its type. Simply designed, the resource demonstrates the primary elements of a truss bridge. The heavy timber frame is reinforced with knee braces and with riveted metal gussets on both the interior and exterior of the king posts. The floor beam is supported by steel tension rods, and the structure rests on concrete piers.

Constructed in 1964, the bridge has an overall length of 64' (19.50m). The length of the main truss span is 39' (11.88) and bridge deck width is 21'9" (6.62m). The structure is located in an isolated agricultural area and is utilized about 40 times per day.

Condition: Though it has been reinforced since construction, the bridge is now functionally obsolete. It is too narrow and has a very low structural sufficiency rating. The top chord is too low to accommodate agricultural vehicles and there is decay in all timber members in the triangular panels, as well as in the substructure. It is estimated that the deck is 75% worn through. Weight capacity has been reduced for safety considerations.

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Project Information: The prestressed concrete bridge replacement will span 60' (18.29m) and will be 28' (8.53m) in width.

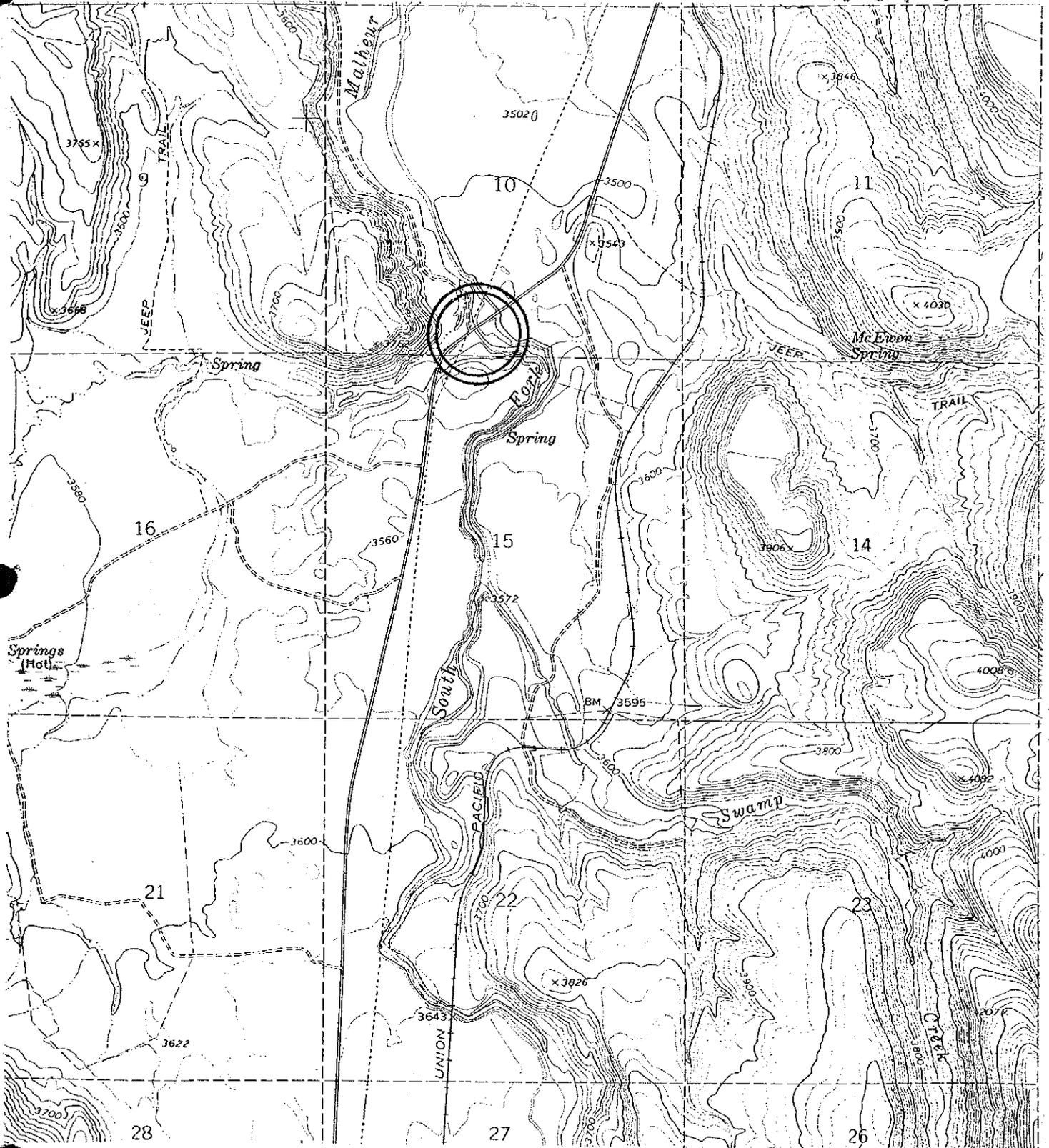
Report Prepared by: James Norman, Cultural Historian
Oregon Department of Transportation

Date: January 7, 1998

HISTORIC AMERICAN ENGINEERING RECORD
LOCATION OF RESOURCE

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Dunnean, Oregon Quadrangle, Harney County, Oregon
7.5 Minute Series, USGS