

10 28 D 174

THE BALDWIN LOCOMOTIVE WORKS

Specification Card for Locomotive No. 11 ✓

Owned by Caddo & Choctaw Railroad Company.

Operated by Caddo & Choctaw Railroad Company.

Builder, The Baldwin Locomotive Works.
 Builder's No. of Boiler 58194
 When built January, 1925
 Where built Eddystone, Penna.
 Type of boiler Ext. Wag. Top. Rad. Stayed
 Material of boiler shell sheets Steel
 Material of rivets Steel
 Dome, where located On 3rd Course
 Grate area in sq. ft. 18.7
 Height of lowest reading of gauge glass above crown sheet 2 1/2"
 Height of lowest gauge cock above crown sheet 3 1/2"
 Water bar tubes, O. diam. --- thickness ---
 Arch tubes, O. diam. --- thickness ---
 Fire tubes, number 200
 Fire tubes O. diam. 2" length 177"
 Safety valves:

No.	Size	Make	Style
<u>2</u>	<u>3"</u>	<u>Crosby</u>	<u>Open</u>

Firebox stay bolts, O. diam. 7/8" spaced 4" x 3.91"
 Combustion chamber stay bolts, O. diam. ---
 Combustion chamber stay bolts, spaced --- x ---
 Crown stays, O. diam., top 1" bottom 1-1/32"
 Crown stays, spaced 4" x 3.91"
 Crown-bar rivets, O. diam., top --- bottom ---
 Crown-bar rivets, spaced --- x ---
 Water space at firebox ring, sides 3"
3" front 4"

of water space at sides of firebox measured at
 or line of boiler, front 5-5/8" back 7-3/8"

Shell sheets:
 Front tube 1/2" in. thick.
 1st course 5/8" in. thick 51-3/4" I. diam
 2d course 11/16" in. thick 56"-62 1/2" I. diam
 3d course 11/16" in. thick 63-5/8" I. diam
 4th course --- in. thick --- I. diam
 Mem.: When courses are not cylindrical give inside diameter at each end.

Firebox: Thickness of sheets
 Tube 1/2" in. Crown and Sides 3/8" in.
 Door 3/8" in. Combustion chamber --- in.
 Inside throat if tube sheet is in two pieces ---

External firebox:
 Thickness of sheets throat 11/16" back head 1/2" in.
 Roof --- sides 9/16"
 Dome inside diam. 59 inches.
 Thickness of sheet 1" base 1" liner 11/16"

Were you furnished with authentic records of the tests of materials used in boiler? Yes

Records on file in the office of the Test Department of The Baldwin Locomotive Works show that the lowest

tensile strength of the sheets in shell of this boiler is:

1st course	<u>58900</u>	pounds per sq. in.
2d course	<u>58100</u>	pounds per sq. in.
3d course	<u>58500</u>	pounds per sq. in.
4th course	<u>---</u>	pounds per sq. in.
Dome	<u>57900</u>	pounds per sq. in.
Dome liner	<u>57600</u>	pounds per sq. in.

Is boiler shell circular at all points? Yes
 If shell is flattened, state location and amount. ---
 Are all parts thoroughly stayed? Yes
 Are dome and other openings sufficiently reinforced? Yes
 Is boiler equipped with fusible plugs? Yes

Make working sketch here or attach drawing of longitudinal and circumferential seams used in shell of boiler, showing on which courses used, and give calculated efficiency of weakest longitudinal seam.