

Steel Donkey Boiler by Fusion 16" L" of  
Stockton for the Dunsmuir & Co. No 174 vessel

80 lb pressure

Plate 7.  $\frac{3.375 \times .8125 \times 100}{3.375} = 48.9$  Back Tube  $\frac{140 \times 10^2}{12.75^2} = 84 \text{ lbs.}$

Rivet 7.  $\frac{2 \times .52 \times 1.75 \times 85}{3.375 \times .5} = 91$  Stay tubes  $\frac{4500 \times (6.49 - 4.43)}{(12.84 \times 8.46) - 21} = 169 \text{ lbs.}$

Shell  $\frac{20 \times 48.9 \times (8-2)}{108} = 84.3 \text{ lbs.}$  Boiler Back  $\frac{135 \times 9.5^2}{12^2} = 84 \text{ lbs.}$

Furnace  $\frac{89600 \times .469^2}{6.45 \times 34} = 85.7 \text{ lbs.}$  " Stay  $\frac{14846000}{10.5 \times 9} = 94 \text{ lbs.}$

Ends steam pipe  $\frac{145 \times 12^2}{18^2} = 48 \text{ lbs.}$

- - Stay  $\frac{4500 \times 344}{18 \times 13} = 102 \text{ lbs.}$

Comencers  $\frac{120 \times 7.5^2}{9^2} = 84 \text{ lbs.}$

- Stay  $\frac{123 \times 6000}{9^2} = 91 \text{ lbs.}$

Front tube  $\frac{140 \times 9^2}{13^2} = 42 \text{ lbs.}$

Summed into plate

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