

Invert Steel Donkey Boiler by Messrs Denny & Co
 for the G. Manora.

80th working pressure.

plate % $\frac{3.5 - 8125}{3.5} \times 100 = 76.7$. Front tube $\frac{140 \times 12^2}{15^2} = 90 \text{th}$.

Rivet % $\frac{2 \times 5.2 \times 1.75 \times 85}{3.5 \times 5.625} = 78.5$ Back. $\frac{140 \times 12^2}{10.6^2} = 180 \text{th}$.

Shell $\frac{21 \times 76.7(9-2)}{138.06} = 81 \text{th}$. Stay tubes $\frac{4500(6.49 - 4.43)}{15.345 \times 9.25 - 25} = 132 \text{th}$.

Furnace $\frac{1045200 \times 5^2}{69 \times 43} = 91 \text{th}$. Boiler Back $\frac{135 \times (9 + \frac{8}{2})^2}{15^2} = 101 \text{th}$.

Conc. ch. $\frac{120 \times 8^2}{9^2} = 95 \text{th}$. Stays $\frac{1.41 \times 8000}{11.625 \times 9} = 104 \text{th}$.

" Stays $\frac{99 \times 8000}{9^2} = 98 \text{th}$.

" Girders $\frac{9000 \times 5^2 \times 1.75}{(24-9) 825 \times 24} = 98 \text{th}$.

Ends top. $\frac{185 \times 12^2}{16^2} = 104 \text{th}$.

Stays $\frac{2.31 \times 10000}{16^2} = 90 \text{th}$.

W.R.L.
 20th August 1894.



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