

# N<sup>o</sup> 215

Thickness of Plates - Boilers

Shell -----  $\frac{1}{8}$ " thick

Ends -----  $\frac{9}{16}$ "

Butt Straps -----  $\frac{1}{4}$ "

Tube plates -----  $\frac{1}{4}$ "

Furnaces -----  $\frac{3}{8}$ "

Fireboxes -----  $\frac{1}{2}$ "

Steam Receiver

Shell -----  $\frac{1}{4}$ "

Ends -----  $\frac{9}{16}$ "

double riveted lap joints,  $\frac{3}{4}$ " rivets, 25 pitch  
4" lap

Heating Surface in one Boiler Steam Space in one Boiler 139.0 cu. ft.

Tubes ----- 906.01 sq. ft. " " " " Steam Receiver 101.2

Furnaces ----- 63.20 " " Total for 2 B's & 2 R's 280.2 cu. ft.

Fire box ----- 110.80 " " Water Space in one Boiler 115

Tube plates ----- 40.44 " " " " " " 830

Total ----- 1120.46 " " Working Pressure 65 lbs.

for 2 Boilers 2240.90 " " Testing Pressure 130

Fire grate area for 2 Boilers ----- 40 sq. ft.

Furnace area ----- 20 sq. ft.

Wt. of water in one Boiler (salt) ----- 11.8 tons

(fresh) ----- 11.5

Height of one Boiler ----- 13.6 tons

one Steam Receiver connections 1.9 tons

John Stewart  
Engineer  
March 1876

