

# Steam Ship "Monaco"

15703 Iron

~~15704~~

Run 21/1/76

Diameter of Boiler 11' 6"

Thickness of shell plates  $\frac{7}{8}$ "

Description of riveting. double and double butt straps.

Pitch of rivets. Longitudinal seams  $3\frac{1}{2}$ " Circumferential  $3\frac{1}{2}$ "

Lap of plating " " 13" " " 6"

Dist. of rivets " " 1" " " 1"

Number of Furnaces in Boiler 3.

Diameter of Furnaces 2' 8"

Length of Furnaces 7' 0"

Thickness of Furnace plates  $\frac{1}{2}$ "

Joints of furnace plates. lapped & single riveted.

Length of fire grate 3' 7"

Whether furnaces are strengthened with rings. none.

Back uptake plates  $\frac{15}{32}$ " thick screw stayed 10' 9" x 12' 1" diam = 4800 lbs

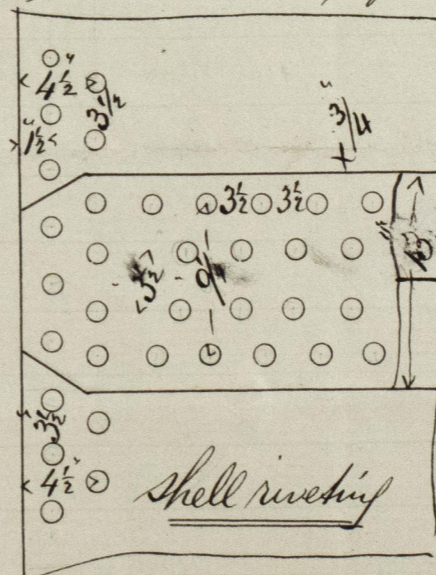
Ends  $\frac{7}{8}$ " thick bolt stayed 17' 2" x 12' 1" diam = 5687 "

Flat plates where screw stayed = 62 lbs working pressure. Ends with washers = 65 lbs

$$\text{Shell} = \frac{51520 \times 1\frac{3}{4} \times 71}{136 \times 6.5} = 72 \text{ lbs working pressure.}$$

$$\text{Furnaces} = \frac{89600 \times \frac{1}{2}^2}{7 \times 2\frac{2}{3}} = 120 \text{ " "}$$

Tube plates stayed with stay tubes, screwed into back tube plate but no nuts. Nuts on each side of front tube plate.



William Allison.  
Engineer Surveyor.

Jan 17<sup>th</sup> 1876.

