

159162

IRON 465-0204

Steamship Falcon.

Diameter of boilers 11' 0"

Run 9/3/76

Thickness of shell plates $\frac{13}{16}$ "

Description of riveting; double & double butt straps.

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

Lap of plating " " 12" " " 5"

Diameter of rivets " " 1 $\frac{1}{8}$ " " " 1 $\frac{1}{8}$ "

Number of furnaces in each boiler, 2,

Diameter of furnaces 3' 2"

Length of furnaces 7' 9"

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

Joints of furnace plates. double butt strapped & single riveted.

Length of fire bars 6' 0"

Whether furnaces are strengthened with rings. none.

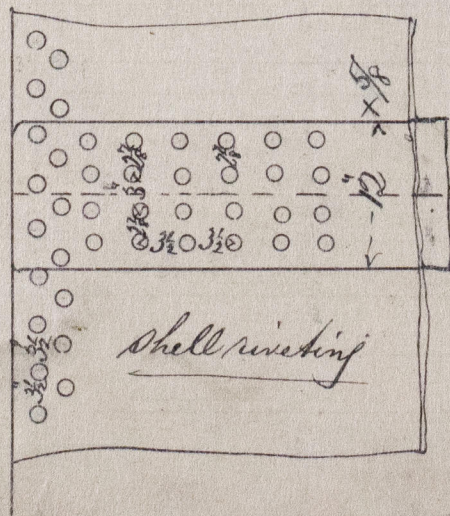
Back uptake plates $\frac{1}{2}$ " thick screw stayed $8' \times 8\frac{1}{2}' \times 1\frac{1}{4}" = 3683$ lbs.End plates $\frac{5}{8}$ " thick bolt stayed $13\frac{3}{4}' \times 13\frac{3}{4}' \times 1\frac{1}{8}"$ dia. = 4451

Tube plates stayed with stay tubes. screwed into back tube plate, with nuts inside, but none in flame box. Nuts on each side of front tube plates.

Flat plates where screw stayed = 94 lbs working pressure Ends = 60 lbs.

$$\text{Shells} = \frac{51520 \times 1\frac{5}{8} \times 68}{130 \times 6.5} = 67 \text{ lbs working pressure.}$$

$$\text{Furnaces} = \frac{89600 \times \frac{1}{2}}{7\frac{3}{4} \times 38} = 76 \text{ " " "}$$



William Allison

Engineer Surveyor

Feb 21st 1876

Foundation

