

16082 En

Port Sunderland March 8th 1876

Details of Main Boilers of the Steam Ship

"Maud."

843 tons. net.

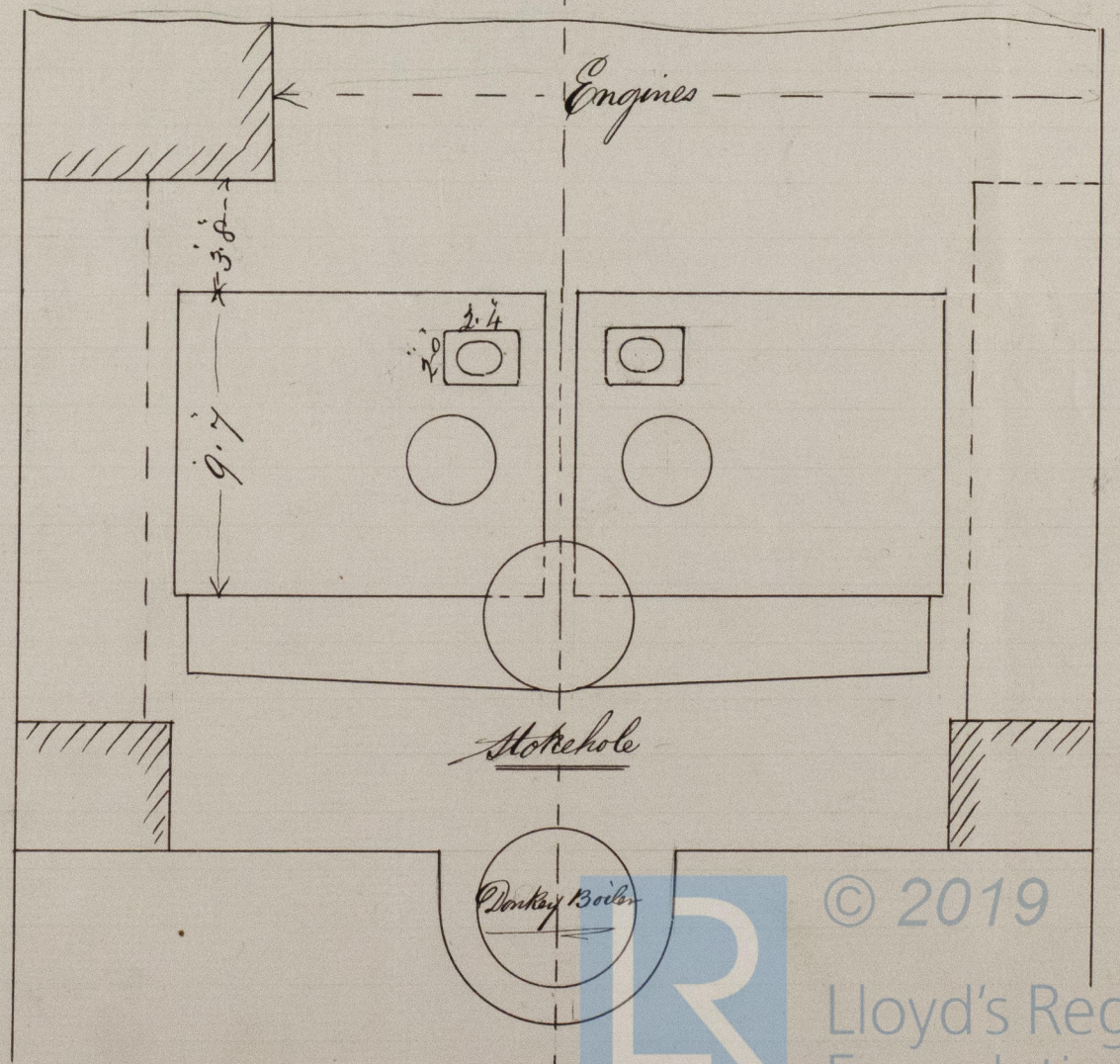
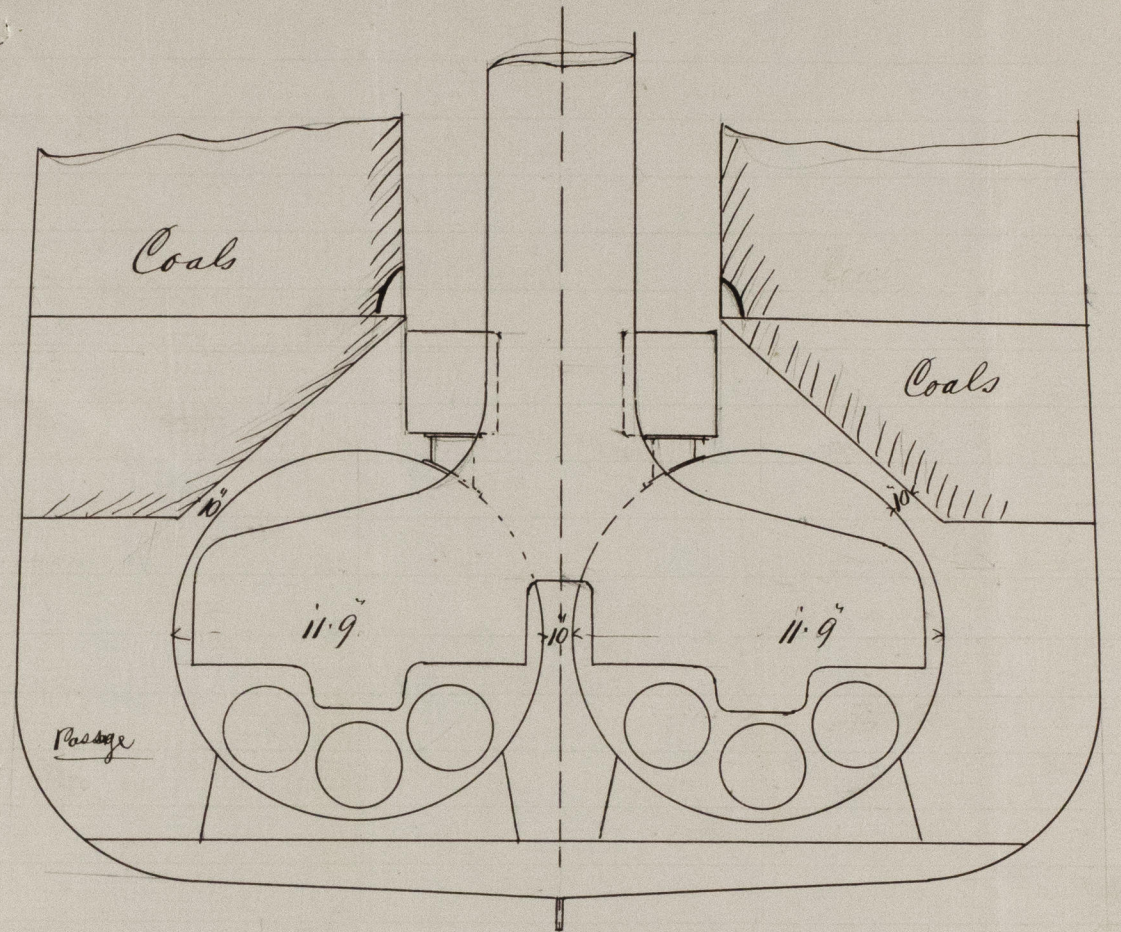
Diameter 11' 9" Length 9' 7" Rev 21/3/78Thickness of shell plates $\frac{15}{16}$ "Description of riveting of longitudinal joints double & double butt of circumferential joints, double,Pitch of rivets ditto $3\frac{5}{8}$ " ditto $3\frac{1}{4}$ "Diameter of rivets ditto 1" ditto $1\frac{1}{8}$ "Lap of plating ditto butt straps $9\frac{3}{4}$ broad ditto $5\frac{1}{4}$ "Size of manholes in circular shell $15\frac{1}{2} \times 11\frac{1}{2}$ "How compensated for by a rectangular plate $2' 4" \times 2' 0" \times 1"$ thickNumber of furnaces in boiler 3Diameter of furnaces $2' 9\frac{1}{2}"$ Length of furnaces $7' 0"$ Thickness of furnace plates $\frac{1}{2}$ " on top plates & $\frac{9}{16}$ " bottomDescription of joint of furnaces double butted & single rivetedWhether strengthened with rings none Greatest length between rings Thickness of combustion chamber plating $\frac{1}{2}$ inchDiameter of screw stays to ditto $1\frac{1}{2}$ " over the threads pitch of stays $7\frac{1}{2} \times 7\frac{1}{2}$ "End plates, thickness $\frac{13}{16}$ "Diameter of longitudinal stays to end plates $2\frac{3}{8}$ " & $2\frac{1}{2}"$ bottom of them pitch of ditto $14\frac{1}{2} \times 13\frac{1}{4}$ "How stays are secured they are bolts going right through, with nuts on each side of platesDiameter of tubes $3\frac{1}{2}$ " external diameter pitch of tubes $4\frac{7}{8}$ " vertical & $4\frac{3}{4}"$ horizontalThickness of tube plates $\frac{13}{16}$ "Stayed by stay tubes, with nuts on front plate pitch of stays $14\frac{1}{4} \times 9\frac{3}{4}$ "Description of steam receiver upright cylindrical, with a small neck connecting it to the boilerDiameter of ditto $3' 3"$ length of ditto $4' 4"$ Thickness of plating of ditto $\frac{7}{16}"$ ends $\frac{5}{8}"$ Ends, how stayed with 4 stays, $2\frac{3}{8}"$ diameter

$$\text{Shells} = \frac{51520 \times 1\frac{1}{8} \times 72}{139 \times 6.5} = 76 \text{ lbs working pressure.}$$

$$\text{Furnaces} = \frac{89600 \times \frac{1}{2}^2}{7 \times 33\frac{1}{2}} = 95 \text{ " " "}$$

William Allison.

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