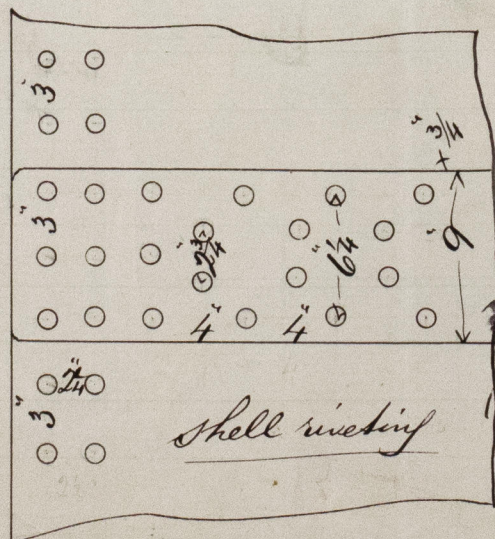


# Steamship, Kate Sawett.

Diameter of boiler 11' 6" 16146 *Iron.*  
 Thickness of shell plates  $\frac{13}{16}$ .  
 Description of riveting. double, and double butt straps.  
 Pitch of rivets. Horizontal seams 4" Circumfl. 3"  
 Lap of plating - butt straps 9" " - 5"  
 Diameter of rivets " 1" " 1"  
 Number of furnaces in boiler 4.  
 Diameter of furnaces 3' 2".  
 Length of furnaces 6' 0".  
 Thickness of furnace plates  $\frac{1}{2}$  &  $\frac{9}{16}$ .  
 Joints of furnace plates. lapped and double riveted.  
 Length of fire bars 5' 0".  
 Whether furnaces are strengthened with rings. none.  
 Back uptake plates  $\frac{1}{2}$ " thick. screw stayed  $8 \times 7\frac{1}{2} \times 1\frac{1}{2}$  dia = 3900 lbs  
 End plates  $\frac{3}{8}$ " thick bolt stayed  $15 \times 14\frac{1}{2}$  4039 "  
 Flat plates where screw stayed = 106 lbs working pressure. Ends = 90 lbs  
 Tube plates stayed with stay tubes screwed into back tube plates. with  
 nuts in flame box but none inside. Nuts on each side of front  
 tube plate.

$$\text{Shells} = \frac{51520 \times 1\frac{5}{8} \times 75}{135 \times 6.5} = 71 \text{ lbs working pressure}$$

$$\text{Furnaces} = \frac{89600 \times \frac{1}{2}}{6 \times 38} = 98 \text{ " " "}$$

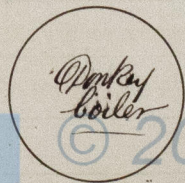
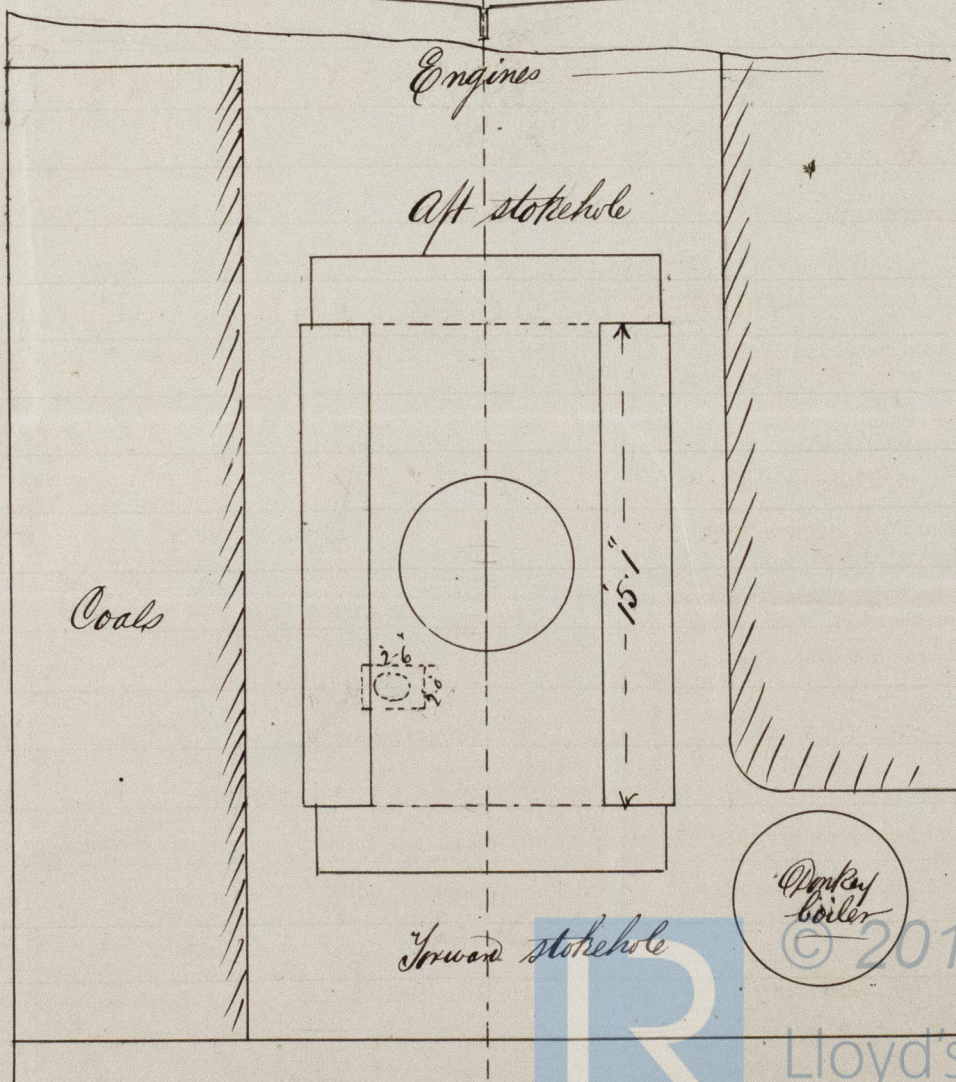
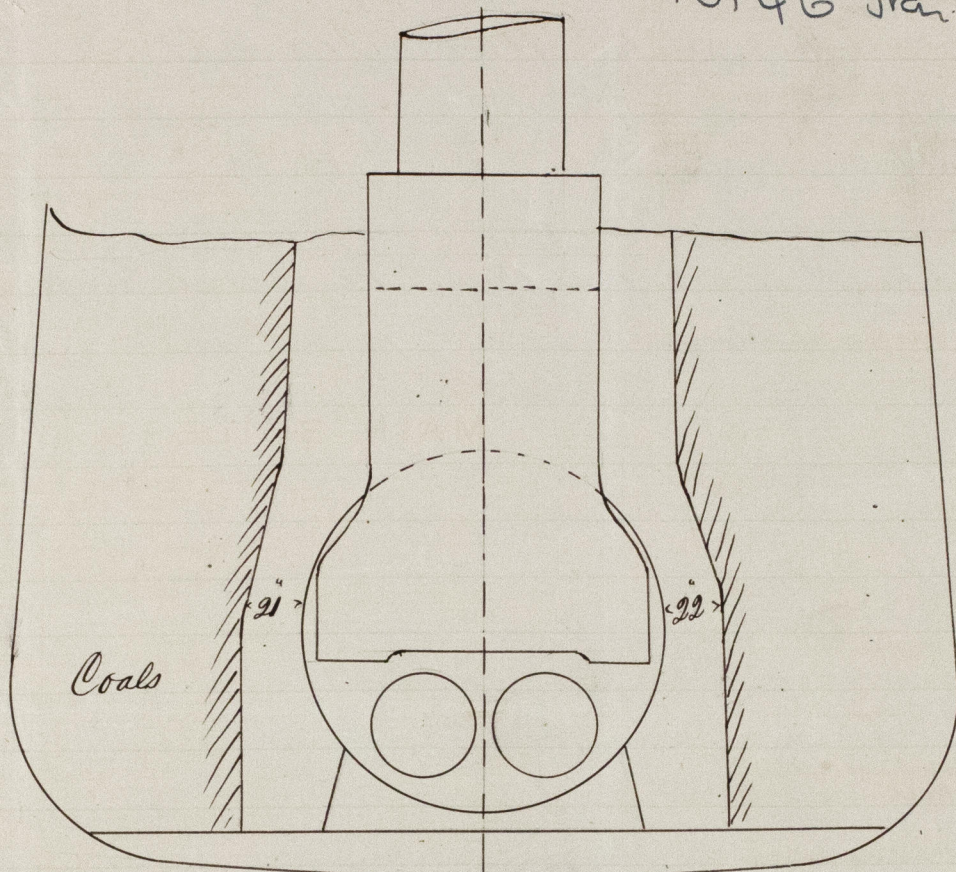


William Allison.  
 Engineer Surveyor.  
 March 1<sup>st</sup> 1876

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16146 Fran.



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