P. Rowan & Co Boiler No. 366

Circumferential seams Plate $\frac{3.09 - 1.125}{3.09}$ (1.865) = **60.3**

Rivets $\frac{23 \times .99 \times 2}{29 \times 3.09 \times 1.06}$ = 48.1

Longitudinal seams Plate $\frac{8 - 1.125}{8} = \frac{6.875}{8} = 86$

Rivets $\frac{23 \times .99 \times 5 \times 1.875}{29 \times 8 \times 1.06}$ = 86.7

Combined $= 8 - 2.25 + \frac{86.7}{5} = \frac{5.75}{8} + \frac{86.7}{5} = 72 + 17.3 = 89.3$

Shell $\frac{32 \times 29 \times 86}{2.75 \times 180} = 162$

Furnaces $\frac{480 \times 15.5}{46.03} = 161$

Top ends $\frac{96 \times 1296}{488 + 272.25}$ (760) = 164 | dia. = 96, 96, 110, 3 ⟌ 302 = 100.7 | W.P. $= \frac{1296 \times 100.7}{D^2 = 700} = 188$

Tube plates Front W.W. space $- \frac{72 \times 676}{210.25 + 95.06}$ (305.31) = 159.3. Back $\frac{38 \times 529}{11.25^2} = 159$

Girders $\frac{371 \times 60.06 \times 56}{33.6 \times 25.1 \times 9} = 164$

CCs sides $\frac{75 \times 400}{115.56 + 72.25}$ (187.81) = 160. | Tops $\frac{75 \times 400}{81 + 72.25}$ | Back $- \frac{75 \times 400}{110.25 + 76.56}$ (186.81) = 161

Lower back $\frac{86 \times 484}{76.56 + 182.25}$ (258.81) = 160

Main stays ($2\frac{3}{4}$) $\frac{65455}{22.25 \times 15.5 = 344} = 190$ | $\frac{65455}{18.75 \times 20.5}$ (384) = 170

Screw stays $1\frac{1}{2}$ $\frac{12542}{76.3} = 164$

$1\frac{5}{8}$ $\frac{15214}{92} = 168$

$1\frac{3}{4}$ $\frac{18144}{105} = 173$ Marginal

Top corners $1\frac{7}{8}$ $\frac{21332}{138} = 154$

Max.m vertical pitch of main stays = 17.6 ∴ main stays cover 2.1" past the middle line between main & screw stays. i.e. area supported = 113 ins [illegible]

[illegible signature]

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Vessel placed on slip. the outer surface of the shell and rudder cleaned. examined and found good and afterward recoated.

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LR-FAR-TBS-16