

3/18/92
Ldr.

STEEL DONKEY BOILER

14' 0" x 6' 0"

SCALE 1 INCH = 1 FOOT

WORKING PRESSURE 80 L.B.S.

Vertical Butts of Shell double riveted.

Seams of Shell & Furnace single riveted.



$\frac{13}{16}$ " Steel Rivets 2 $\frac{3}{4}$ " pitch.



$\frac{13}{16}$ " steel Rivets 2" pitch.

Percentage of Strength for Plates at joint $\frac{2.75 - .8125}{2.75} \times 100 = 70.45$

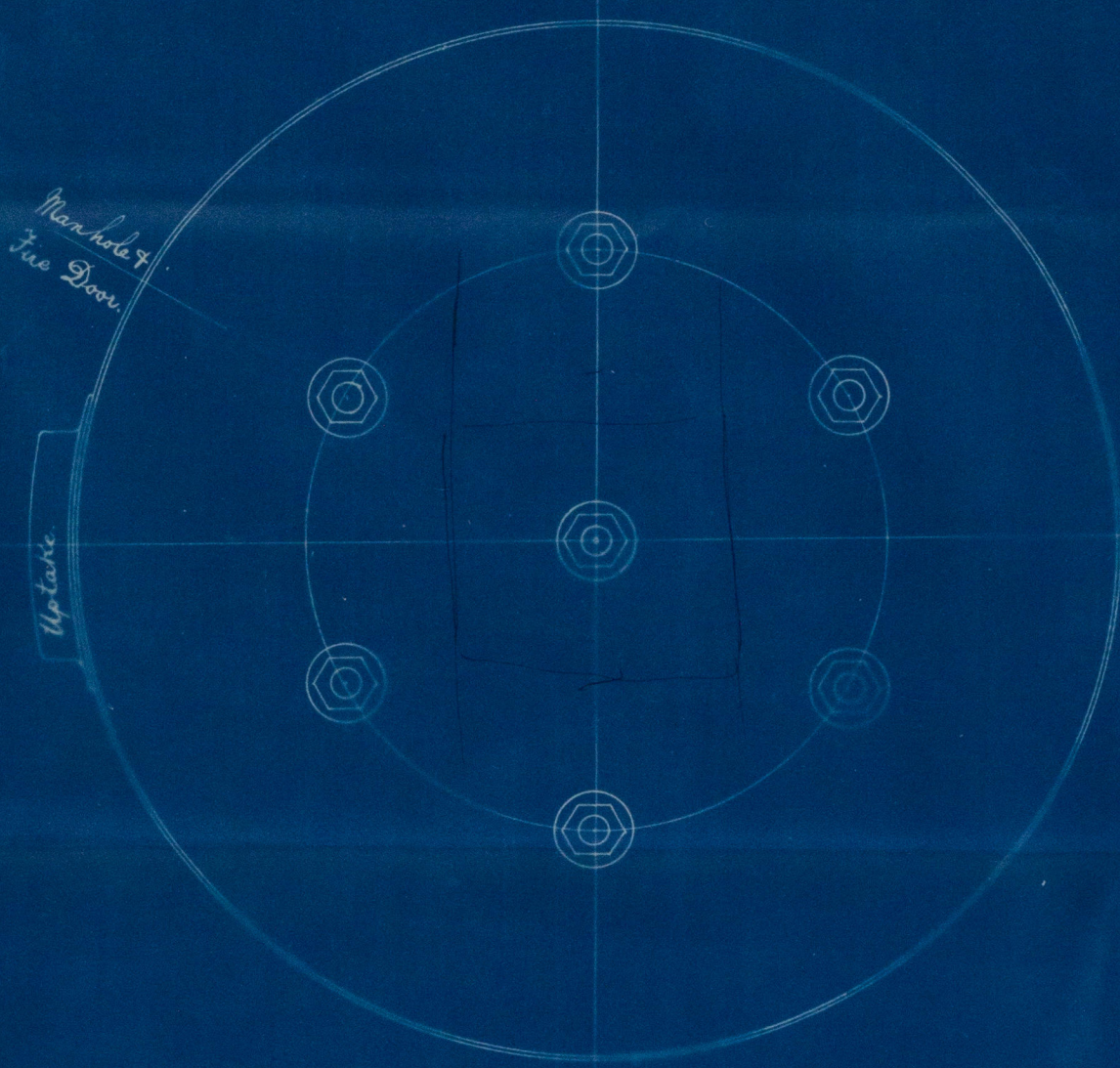
Percentage of Strength for Rivets at joint $\frac{2 \times .5185}{2.75 \times .40625} \times 85 = 78.14$

$\frac{13}{32}$ " Steel Shell $18.5 \times 70.45 \times 4.5 = 81.45$ LBS

$\frac{19}{32}$ " Steel Furnace $\left\{ \begin{array}{l} \frac{89600 \times .35254}{59 \times 5.25} = 101.97 \text{ lbs.} \\ \frac{8800 \times .39375}{59} = 88.55 \text{ LBS} \end{array} \right.$

88.55
101.97
190.52

Plan of Top



Section showing Tubes



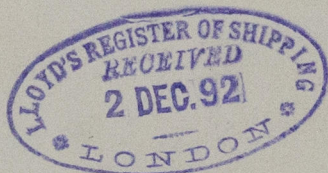
J. Im
2/17/92

Note:- Handholes to be cut in Shell of Boiler opposite each end of Tubes.



HR 370-0081

Doukey Boiler
W. Gray & Co's 461 vessel



S.S. Adjutant,
W. Hpl. Report No. 9128

HPL370-0081



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