

14796 Iron
S. S. John M. Pentyre

Particulars of Boilers

Dia. of Boiler 10 ft 2 1/2"
Thickness of Shell 3/4"

Description of riveting: Fig 4, as
dia of rivets 1"

No of furnaces in each boiler 2

Dia of furnaces 3 ft

Length of do 7 ft

Lap joints. No strengthening rings

Thickness of plates of furnaces 1/2"

Dimensions of fire grate 5 ft 6" x 3 ft

Plating in flat ends 3/4" thick

Longitudinal stays to flat ends 2 in square
secured by cotter passing through reverse

angle cross riveted to plating. Pitch 14 1/2" x 14 1/2" Strain on "in of Section of Stays 3942 lbs

Combustion chamber plating 1/2" thick

Sides and back of do supported by screwed stay 1 5/16 dia

to bottom of thread. Pitch 9" x 8 3/4". Chamber rounded on top. Radius 14"

of combustion chamber 4 ft 3" x 1 ft 8 3/4". Strain on "in of section of stays 5836 lbs

lute plates 3/4" thick supported by 18 stay tubes secured with nuts
on each side of lute plate and 6 stay bolts 1 3/8" dia. Total tubes
in each boiler 126

Annular superheater. Inside diameter 4 ft 3" Outside 6 ft 9"

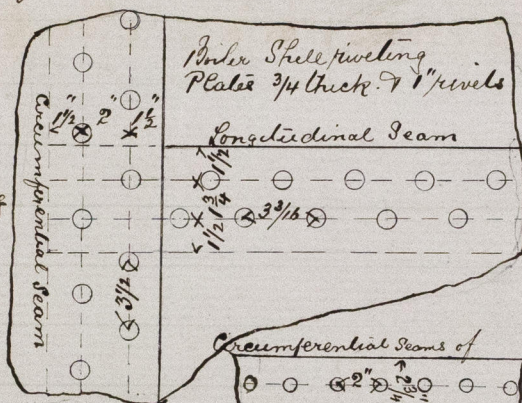
Inside plating fitted with expansion rings

8 Stays in Circumference of do 1 5/16 dia, to bottom of thread.

Pitch vertically 20 1/2"

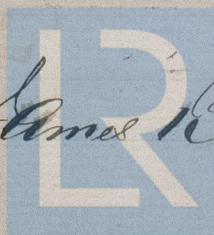
Strengthening rings round manholes

Total heating surface in two boilers 1959.5 sq ft



14/1/5

James Bain



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Foundation

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