

Iron and Steel Screw Steamer

No. 146

Scale 1/2 inch = 1 foot

Class 100 A

June 18

S.S. "Plarmigan"

Report No. 5467

Note

Beams, Decks, Shell from Ridge upwards, Coops & Forecastle erections,
Tank Top, Hatch Coamings Engine & Boiler casings bracket plates
outside tank, Stanchions, Keel Slabs, stem, sternpost, Rudder,
Rolling Keelson, Coal Bunkers, Engine & Boiler seats, F. N. Tanks,
Bulkhead liners & Chain locker Bulkhead Rivets of Iron & Forecastle Decks

Riveting

Butts of Main deck stringer plate overlapped
& treble riveted for 1/2 length

Butts of Sheerstrake I treble riveted & straps 1/2"
thicker for 1/2 length amidships

Butts of Strakes B.C. overlapped & double riveted throughout

Butts of Strakes D.E. overlapped & treble riveted for 1/2 L

Butts of Strakes A.F.G.H. double riveted throughout

Centre longitudinal plates overlapped & treble riveted
with three complete rows of rivets.

1/4" x 1/4" x 1/20 to 1/20

5/8" x 3/4" angle on every frame

Whole Beams in way of web frames 7/8" x 1/20

single angle 3/4" x 3/4" x 1/20 3 depths of beam

12981 + 1348 = 14329 Equipment 1/2 L

Lloyds 134,500 to 15120

2 Bower anchors 18 Cwt ex stock

1 " " 15 1/2 " " "

1 Stream " 6 1/2 " " "

1 Kedge " 3 1/4 " " "

1 " " 1 1/2 " " "

240 fathoms 1 1/2" Stud chain cable

60 " 1 1/2" Stream " "

90 " 9/2 Hump

90 " 7 1/2 Hawser

90 " 5 1/2 "

Seven deck stringer 2 1/2" x 1/20 to 2 1/2" x 1/20 at ends angle 3 1/2" x 3 1/2" x 1/20

Beams 7/8" x 1/20 built & double angles 3" x 3" x 1/20

Pillars lower 2 1/4" dia. Seven decks 2 1/2" dia. of iron

5/8" x 3/4" Keelson below Seven deck double angles 5" x 3 1/2" x 1/20

Short reverse height in way of Seven decks to 3 1/2" above Seven

deck stringer plate Seven decks 10" x 1/20 to 1/20 deck 6" x 3/4" Battens

Butts of inner bottom in C & B space double riveted

1/16" dia. rivets throughout

20" x 14" 1/20

20" x 14" 1/20

20" x 14" 1/20

20" x 14" 1/20

20" x 14" 1/20

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20" x 14" 1/20

20" x 14" 1/20

Note

Rivets spaced diameters in steel & 4 diameters in iron, in butts of shell
fitting Main deck stringer.

3/16" iron
3/16" plates 1/2" x 1/2" iron increased to 1/2" x 1/2" in way of Main Hatch & B. Casings.
5/8" x 3/4" Yellow pine 5 1/2' 3"

5/8" x 3/4" angle on alternate frames from

Hatch Beams 6" x 1/16" built & single angle 3 1/2" x 3 1/2" x 1/16"

Forecastle Beams of Bulk 6" x 1/16" double angles 2 1/2" x 2 1/2" x 1/16" iron

Dimensions

Length between perpendiculars 220'-0"

Breadth extreme 30'-6"

Depth " 15'-6"

total 16'-1 1/2"

1/16" iron

1/16" iron

1/16" iron

1/16" iron

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Lloyds Tonnage

Half girth 28'-0"

Breadth 15'-16"

Whole depth 16'-12"

59.32 = 1 1/2% Lloyds 57 to 61

Lloyds Length 218.83 x 59.32 = 12981 Lloyds 12400 to 13100

Proportions

Breadths to Length 7.21

Depths to Length 13.57

Frame Legs 3 1/2" x 3/4" for 1/3 length to 1/20 at ends spaced 22 inches apart

Reverse frames 3 x 2 1/2" x 1/20 throughout to upper intercostal & Main

deck alternately double in C & B space inside tank

Bulkheads lower half 1/20 upper half 1/20

Stiffeners 3 1/2" x 3" thickness of frame spaced 30" apart

Keel slabs of iron 7' x 1" Stem of iron 7' x 2" Sternpost of iron 7' x 1/2"

Rudder Stock 3/4" dia. pintles 3" dia

Angles Marked A = 3' x 2 1/2" x 1/20

Frame Bottoms 3' x 3/4" x 1/20 to 1/20

Reverse " 2 1/2" x 2 1/2" x 1/20 throughout single except in way of web frames & Bulkheads

Iron 1/16" to 1/16" Butts 1/16" in Holds 1/16" in C & B space Ceiling 2 1/2" thick

1/16" dia. rivets throughout

1/16" dia. rivets throughout

1/16" dia. rivets throughout

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1/16" dia. rivets throughout

1 1/2" x 1/16" iron 1/20
Butts double riveted

L = 42" x 1/16" iron increased 1/16" in way of break.
Butts double riveted

Long Reverse Height

I Sheerstrake 3 1/2" x 1/16" to 1/16" iron
(increased 1/16" to 1/20 length in lieu of doubling)
& further increased 1/16" in way of break.
5 1/4"

H = 34" x 1/16" to 1/16" iron

Short Reverse Height

G = 47" x 1/16" to 1/16" iron

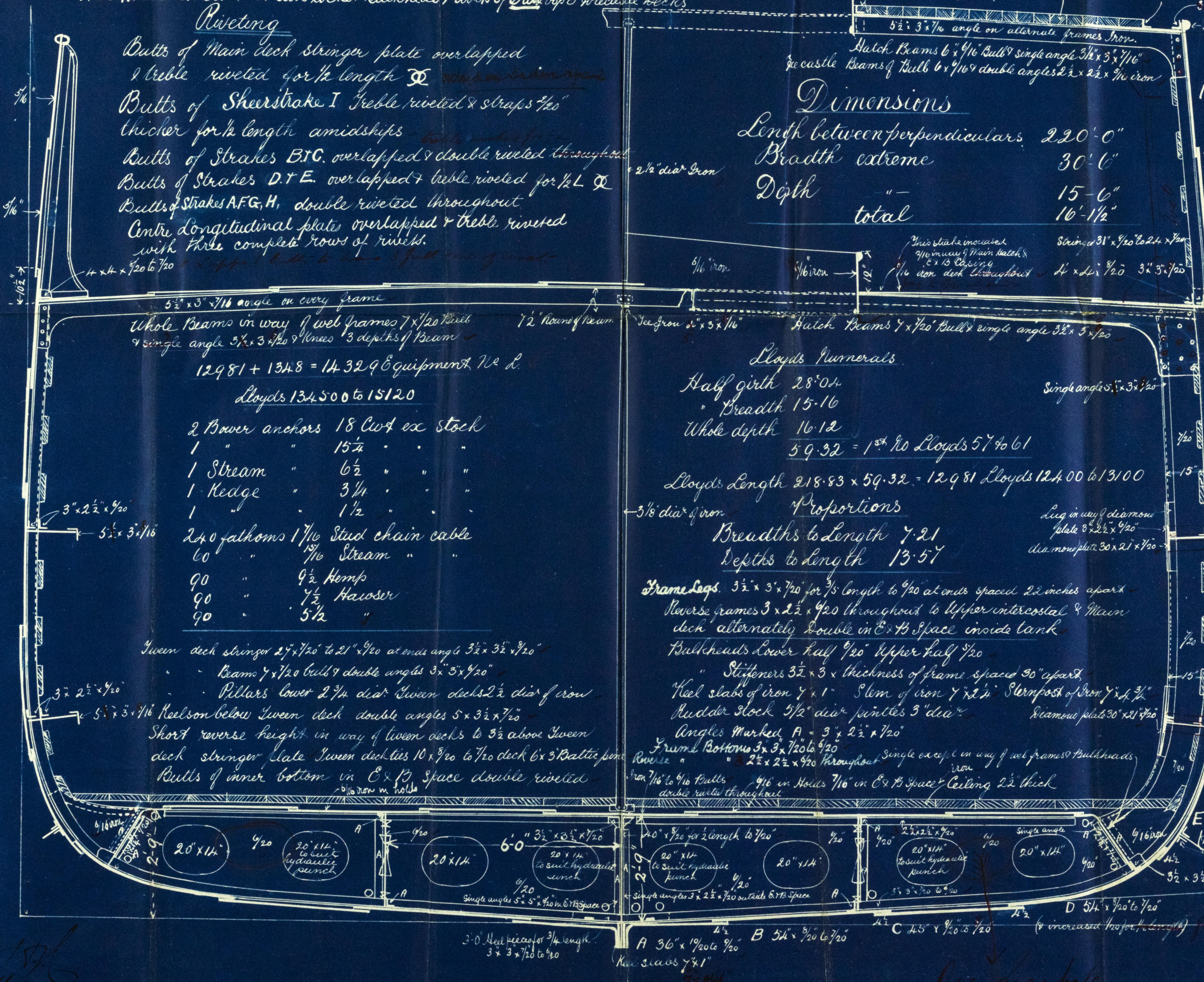
F 39 1/2" x 1/16" to 1/16" iron

E 39 1/2" x 1/20 to 1/20
1/16" increased 1/20 for 1/2 length
1/2" x 1/2" iron plate
3 1/2" x 3 1/2" x 1/16" iron
3 1/2" x 3 1/2" x 1/20 continuous

D 5 1/2" x 1/20 to 1/20
(1/16" increased 1/20 for 1/2 length)

C 4 5/8" x 1/20 to 1/20
B 5 1/4" x 1/20 to 1/20
A 3 3/4" x 1/20 to 1/20
Keel slabs 7' x 1"

Note -
Iron in 16 1/2"
Steel in 20 1/2"



18/6
16/6/90

One Bulkhead

R

Lloyds Reg.

Midship Section
of
Iron & Steel
Screw Steamer
No. 146.
Gourlay Bros. & Co.
Gen. Stm. Nav.
Coy.
Dundee;
Report No. 5467
S.S. Parmigan.

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Lloyd's Register
Foundation