

3 Decks.

# IRON OR STEEL STEAMER.

(Received at London, 2 JUL 1894)

State if Report is also sent on the Machinery of the Vessel

Date of completion of report 11<sup>th</sup> July 1904 Port of Barrow

No. 607 Survey held at Barrow Date, First Survey 1<sup>st</sup> December 1893 Last Survey 6<sup>th</sup> July 1894

On the Steel Screw Steamer CLAN ROSS Rig Schooner

TONNAGE under THREE DECKED VESSEL.

Do. between Tonnage Dk. and 3rd and 4th Dk. CLASS 100. A.1

Total under Upper 11k. 2398.28

Do. of Poop 64.54

Do. of Bridge House 60.66

Do. of Houses on Dk. 8.75

Do. of excess of Hatchways 23.17

Do. of Forecastle 37.30

Do. above Crown of Engine Room 2602.18

Gross Tonnage 82.99

Less Crew Space 37.30

Less above Crown of Engine Room 2481.89

TONNAGE FOR FEES 832.70

Less Engine Room 22.09

Less Navigation Spaces 1664.40

Register Tonnage as cut on Beam 1664.40

FEET.

Half Breadth (moulded) 20.00

Depth from upper part of Keel to top of Upper Deck Beams 26.96

Girth of Half Midship Frame (as per Rule) 42.87

deduct 7 feet 89.83

1st Number 7.00

Length 82.83

2nd Number 310.33

Proportions—Breadth to Length 7.76

Depth to Length—Upper Deck to top of Keel 11.51

Main Deck ditto 16.33

Destined Voyage Glasgow to Lead. If Surveyed while Building, Afloat, or in Dry Dock

Master N. Hall

Year of appointment 1894

Built at Barrow

When built 1894 Launched 7<sup>th</sup> June

By whom built James Construction & Ironworks Co. Ltd.

Owners Cuyper & Sons & Co.

Managers

Residence Glasgow

Port belonging to Glasgow

LENGTH on Deck as per Rule 310 4 BREADTH Moulded 40 0 DEPTH top of Floors to Upper Deck Beams 24 11 Do. Main Deck Beams 16 11 1/2 Power of Engines 300 No. of Decks with flat laid 2 No. of Tiers of Beams 2

Dimensions of Ship per Register, Length 312.0 breadth 40.2 depth 24.7 Moulded depth, ft. 26 ins. 2 To Upper Dk. Beam, Upper Dk. 9 ins.

## FORGINGS or CASTINGS.

KEEL, Bar or Side Plates, depth and thickness 10 x 2 3/4 10 x 2 3/4

STEM, moulding and thickness 10 x 2 3/4 10 x 2 3/4

STERN-POST for Rudder do. do. 10 x 6 10 x 6

for Propeller 10 x 6 10 x 6

MAIN-PIECE of Rudder, diameter at head 8 8

do at heel 4 4

RUDDER, how constructed See Drawing Single Plate.

Can the Rudder be unshipped afloat? Yes.

## FRAMING.

FRAME, Angles, 5 x 3 1/2 8 5 x 3 1/2 8

Do. for 1/2 at each end 5 x 3 1/2 8 5 x 3 1/2 8

Do. in way of Double Bottoms 3 1/2 3 1/2 8 3 1/2 3 1/2 8

Distance of Frames from moulding edge to moulding edge, all fore and aft 24 24

REVERSED FRAME Angles 3 1/2 3 1/2 8 3 1/2 3 1/2 8

FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships 24 1/2 10 24 1/2 10

in way of Engines and Boilers 12 1/2 8 12 1/2 8

thickness at the ends of vessel 49 8 49 8

depth at 1/2 the half breadth, as per Rule 12 1/2 8 12 1/2 8

height extended at the Bilges 49 8 49 8

FLOORS & BRACKETS in Cell Dble Bottoms 34 8 34 8

Distance apart 40 10 40 10

CENTRE GIRDER, in Dbl Btm, depth & thickness 40 10 40 10

Angles, Top 4 x 4 9 4 x 4 9

SIDE GIRDERS, number and thickness One 7 7

Angles 3 1/2 3 1/2 8 3 1/2 3 1/2 8

MARGIN PLATE, dpth (excl. of flange) & thickness 3 1/2 3 1/2 8 3 1/2 3 1/2 8

Angles 3 1/2 3 1/2 8 3 1/2 3 1/2 8

INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake 36 9 36 9

in Engine and Boiler space 36 9 36 9

Remainder in Holds 7 7

BEAMS, Upper Deck, Single Angle, Bulb 9 5 1/2 8 9 5 1/2 8

Angle Plate or Tee Bulb 9 5 1/2 8 9 5 1/2 8

Angles on upper edge 48 48

Average space 48 48

BEAMS, Middle Deck, Single Angle, Bulb 7 1/2 3 9 7 1/2 3 9

Angle Plate or Tee Bulb 7 1/2 3 9 7 1/2 3 9

Angles on upper edge 24 24

Average space 24 24

BEAMS, Lower Deck, Single Angle, Bulb 7 3 8 7 3 8

Angle Plate or Tee Bulb 7 3 8 7 3 8

Angles on upper edge 48 48

Average space 48 48

BEAMS, Hold, or Orlop, Plate or Tee Bulb 7 3 8 7 3 8

Angle Plate or Tee Bulb 7 3 8 7 3 8

Angles on upper edge 48 48

Average space 48 48

BEAMS, Forecastle Deck, Angle, Bulb 8 3 9 8 3 9

Angle Plate or Tee Bulb 8 3 9 8 3 9

Angles on upper edge 48 48

Average space 48 48

PILLARS, In tween Decks, Size and Spacing 2 1/2 4 8 2 1/2 4 8

Hold 4 4

WEB FRAMES, In Fore Body, No. and spacing 11 Webs 6 Spaces in hold 4 Spaces in hold

Brth. & Thickness 18 8 18 8

No. of Side Stringers 2 2

WEB FRAMES, In After Body, No. and spacing 6 Webs 5 x 6 Spaces in hold

Brth. & Thickness 18 8 18 8

No. of Side Stringers 2 2

Size of Angles or Tee Bars to Web Frames 3 1/2 3 1/2 8 3 1/2 3 1/2 8

BRACKET PLATES to Stringers between Web Frames, Depth and Thickness 12 8 12 8

## KEELSONS & STRINGERS.

CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate 25 14 25 14

Rider Plate 13 1/2 14 13 1/2 14

Bulb Plate to Intercostal Keelson 13 1/2 14 13 1/2 14

Horizontal Plates on Floors 6 1/2 4 9 6 1/2 4 9

Angles 6 1/2 4 9 6 1/2 4 9

SIDE KEELSON, Angles 6 1/2 4 9 6 1/2 4 9

Bulb or Plate above floors, for 1/2 length 9 1/2 9 9 1/2 9

Intercostal Plate, for 1/2 length 9 1/2 9 9 1/2 9

Attached to outside Plating with Angle 3 1/2 3 1/2 10 3 1/2 3 1/2 10

BILGE KEELSON, Angles 6 1/2 4 9 6 1/2 4 9

Bulb or Plate above floors, for 3/5 length 9 1/2 9 9 1/2 9

Intercostal Plate for 1/2 length 3 1/2 3 1/2 10 3 1/2 3 1/2 10

Attached to outside Plating with Angle 3 1/2 3 1/2 10 3 1/2 3 1/2 10

BILGE STRINGER Angles 49 10 49 10

Bulb Plate for length 4 1/2 4 1/2 10 4 1/2 4 1/2 10

Intercostal Plate for length 4 1/2 4 1/2 10 4 1/2 4 1/2 10

Attached to outside Plating with Angle 4 1/2 4 1/2 10 4 1/2 4 1/2 10

SIDE STRINGER Angles 49 10 49 10

Bulb or Intercostal Plate for lng. 4 1/2 4 1/2 10 4 1/2 4 1/2 10

Attached to outside Plating with Angle 4 1/2 4 1/2 10 4 1/2 4 1/2 10

Upper Deck Stringer Plate, on ends of Beams, breadth and thickness 4 1/2 4 1/2 10 4 1/2 4 1/2 10

Angle on ditto 4 1/2 4 1/2 10 4 1/2 4 1/2 10

Tie Plates fore and aft, outside Hatchways 5 1/2 3 1/2 5 1/2 3 1/2

Flat of Dk.\* Iron or Steel, for whole lng. 5 1/2 3 1/2 5 1/2 3 1/2

Wood P.P. Material & thickness 5 1/2 3 1/2 5 1/2 3 1/2

How fastened to Beams 5 1/2 3 1/2 5 1/2 3 1/2

Middle Deck Stringer Plate, br'dth & thickness 4 1/2 10 4 1/2 10

Angles on ditto, No. 4 1/2 10 4 1/2 10

Tie Plates outside Hatchways 4 1/2 10 4 1/2 10

Diagonal Tie Plates on Beams, No. of p's 6 6

Flat of Dk.\* Iron or Steel, for whole lng. 6 6

Wood Material & thickness 6 6

How fastened to Beams 6 6

Lower Deck Stringer Plate, br'dth & thickness 4 1/2 10 4 1/2 10

Angles on ditto, No. 4 1/2 10 4 1/2 10

Tie Plates, outside Hatchways 4 1/2 10 4 1/2 10

Flat of Deck.\* Material and thickness 4 1/2 10 4 1/2 10

How fastened to Beams 4 1/2 10 4 1/2 10

Hold or Orlop Stringer Plate, br'dth & thickness 4 1/2 10 4 1/2 10

Is the Stringer Plate attached to the outside Plating? 4 1/2 10 4 1/2 10

Angles on ditto, No. 4 1/2 10 4 1/2 10

Tie Plates outside Hatchways 4 1/2 10 4 1/2 10

Flat of Deck.\* Material and thickness 4 1/2 10 4 1/2 10

How fastened to Beams 4 1/2 10 4 1/2 10

Poop Deck Stringer Plate, breadth & thickness 28 7 28 7

Angle on ditto 28 7 28 7

Tie Plates 12 6 12 6

Flat of Deck, Material and thickness 12 6 12 6

How fastened to Beams 12 6 12 6

Bridge Deck Stringer Plate, breadth & thickness 36 8 36 8

Angle on ditto 36 8 36 8

Tie Plates 12 6 12 6

Flat of Deck, Material and thickness 12 6 12 6

How fastened to Beams 12 6 12 6

Forecastle Deck Stringer Plate, br'dth & thickness 28 7 28 7

Angle on ditto 28 7 28 7

Tie Plates 12 6 12 6

Flat of Deck, Material and thickness 12 6 12 6

How fastened to Beams 12 6 12 6

## PLATING.

FLAT PLATE KEEL, breadth and thickness 36 12 36 12

Plating in thickness & length applied 36 12 36 12

PLATES in Garboard Strakes, br'dth & thickness 11 1/2 11 11 1/2 11

from Garboard to lower part of Bilges 11 1/2 11 11 1/2 11

State Thickness of Plating in way of Double Bottom 11 1/2 11 11 1/2 11

Bilges, number of Strakes and thickness 3 Strakes 11 1/2 11 11 1/2 11

Of doubling at Bilge, or increased thickness, and length applied 11 1/2 11 11 1/2 11

from up. prt. of Bilge to lr. edge of Sh'rstrake 11 1/2 11 11 1/2 11

Sheerstrake, breadth and thickness 42 15 42 15

Of d'bling at Sh'rstk. & length appl. 42 15 42 15

Poop Sides 7 7

Bridge do. (Increased at ends) 7 7

Forecastle do. 7 7

Lengths of Plating 9 Spaces of frames



the line  $\frac{1}{2}$  up -



Form No. 1 B

London Office

ent (1) As Master in service of present vessel (2) As Master of vessel

MANUFACTURER'S name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.?

Workmanship. Are the butts of plating planed or otherwise fitted?

Is the riveted work properly closed?

Are the liners between the frames and plates solid single pieces?

to plate, &c, conform well to each other?

from the faying surfaces?

Are the butts of Plating, Stringers, &c., properly shifted and strapped?

MASTS, SPARS, &c.

Lower Masts....

Fore .....

Main .....

Mizen .....

Remainder of Spars

Rigging, Material and Size, Shrouds

Sails, One Complete

Suit of

Sails, and the following spare sails

EQUIPMENT No. 29311 LETTER

ANCHORS. See Secretary's letter dated 14th June 1914

Number of Certificate.

1st Bower

2nd "

3rd "

4th "

Collective weight

Stream

Kedge

2nd Kedge

HAWERS AND WARPS.

Number of Certificate.

Fathoms.

Size.

Test per Certificate.

Weight of Chain Cable.

Fathoms & size.

Description.

Makers of Cables.

Where and when tested, and Superintendent.

Material.

Fathoms

Size.

Fathoms & Size.

Per Rule.

Boats

Pumps, Number

The Windlass is

Engine Room Skylights.—How constructed?

What arrangements for deadlights in bad weather?

Coal Bunker Openings.—How constructed?

Number of Scuppers, and number and dimensions of Freeing Ports, &c.

Cargo Hatchways.—How formed?

State size No. 1 Hatch (Forward)

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch

Bulwarks, height above deck and description

The above is a correct description.

Builder's Signature (here only)

For NAVAL CONSTRUCTION & ARMAMENTS CO., LD.

MANAGING DIRECTOR.

Surveyor's Signature.

Surveyor to Lloyd's Register of British and Foreign Shipping.



Ceiling betwixt Decks, thickness and material 2

**BULKHEADS.** No. in Vessel 6 N.T. No. Req'd. by Rule 3 N.T.

Thickness Angles Spacing

Ceiling betwixt Decks, thickness and material

" in hold do. do.

Number of Breasthooks

" Crutches

**BULKHEADS.** No. in Vessel 6 N.T. No. Req'd. by Rule 5 N.T.

Thickness Angles Spacing Height up. Sngl or Dble. Frames

W. T. BULKHEADS { Vrtel. Hrztntl.

*Attention to the* Vrtel. made in record of Sps Clan Ross

LONGITUDINAL Vrtel. Hrztntl. & Sps Clan Campbell.

11.2.15/10/94.

Are the outside Plates doubled two spaces of Frames in length?

**Garboard, double riveted to Bar Keel** 1 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.

**FLAT PLATE KEEL, with rivets** 3/16 ins. from centre to centre



Order for Special Survey No. 44 Date 12<sup>th</sup> Decr 193  
Order for Ordinary Survey No. — Date —  
No. 227 in builder's yard  
1st. On the several parts of the frame, when in place, and before the plating was wrought } 1893 Dec. 4 21. 1894 Jan. 10. 15. 18. 22. 29. Feb. 5. 9. 12. 15. 22. 27. 28.  
2nd. On the plating during the process of riveting } Mar. 2. 8. 16. 19. 21. Apr. 2. 5. 9. 13. 16. 18. 20. 23. 27. 30 May 1. 3. 7. 9. 11. 24. 28  
3rd. When the beams were in and fastened and before the decks were laid } 29. 31. June 1. 12. 13. 16. 18. 19. 27. 30 July 2. 3. 5. 6.  
4th. When the ship was complete, and before the plating was finally coated or cemented ... }  
5th. After the ship was launched and equipped }  
Total No. of Visits 50  
State dates and initials of letters respecting this case 1894 (M) 30<sup>th</sup> Nov. 7<sup>th</sup> Decr. 14<sup>th</sup> Decr. 21<sup>st</sup> Decr. 22<sup>nd</sup> Decr (E) 22<sup>nd</sup> Decr (M) 16<sup>th</sup> Jan 194.

General Remarks (State quality of workmanship, &c.)  
This vessel has been built in accordance with the approved plans the Secretary's letters of the above dates and in other respects in accordance with the Rules and the workmanship throughout is good. The steel used in her construction has been manufactured at the Works set forth on this report and tested by the Society's Surveyors. The iron forgings have been manufactured by the A.C. & Co. L<sup>td</sup> and inspected during course of construction. The requirements of Circulars N<sup>o</sup> 880 and 887 have been complied with.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29.0 ft., R.O.D. or Break — ft., Bridge Dk 62.0 ft., F'castle 39.0 ft.  
(in feet and tenths) where the Poop is joined to the B.D., this should be distinctly stated. Poop not joined to Bridge.

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) 2 Dks (1 Steel, U Iron 11.5) & web frames.  
Official No. —; Signal Letters —

PARTICULARS OF WATER BALLAST.—  
Double bottom, aft, length 82.0 and water capacity in tons 117. Double bottom, forward, length — and water capacity in tons —  
Double bottom, under engines —, length 18 and water capacity in tons 49. If under engine only, or boilers only, state which Engine only,  
Double bottom, constructed on the cellular system, length 100.0 92.0 and water capacity in tons 166.  
Fore peak tank, water capacity in tons 97. After peak tank, water capacity in tons 38.  
Midship deep tank, length 34.0 and water capacity in tons 675. Other tanks, if fitted, length — and water capacity in tons —  
The above have now been tested as required by the Rules.  
(If necessary, furnish further information by sketch.)  
How are the surfaces preserved from oxidation? Inside Portland Cement & paint Outside Paint.

FREEBOARD assigned by the Committee, as per Secretary's Letter dated 29<sup>th</sup> June 194  
State if marked on Vessel's sides in accordance with instruction  
In Summer 4 ft. 11 ins. To top of Wood, Lower Steel Upper Deck.  
In Winter 5 ft. 3 ins. Statutory Dk line 1 1/2 up  
For Winter in North Atlantic 5 ft. 7 1/2 ins.  
Fresh Water above the centre of disc 5 ft. — ins.

The amount of Entry Fee ..... £ 5 : 0 : 0 is received by me, 14/7/94  
Special ..... £ 87 : 1 : 0  
Certificate\* £ — : — : —  
Travelling Expenses, if any £ — : — : —  
I am of opinion this Vessel should be Classed 100 A. 1. Steel.  
2 Dks (1 Steel U Iron 11.5) & web frames  
\* Certificate to be sent to Barrow Office.  
Wm. Shorestone  
Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute 13 JUL 1894  
Character assigned 100 A. 1. (Steel)  
2 Dks (1 Steel & U Iron 11.5) & web frames  
La & Co. P. + L.M.C. 7. 94  
100 A. 1. (Steel)  
2 Dks (1 Steel & U Iron 11.5) & web frames.  
W.B. = G.U.D.B. & 82' x E 18' 166 t MT 34' 675 t FPT 97 t APT 38 t

La & Co. P. + L.M.C. 7. 94  
100 A. 1. (Steel)  
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W.B. = G.U.D.B. & 82' x E 18' 166 t MT 34' 675 t FPT 97 t APT 38 t  
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Lloyd's Register Foundation  
Full Certificate  
See particular received from the  
Surveyors dated 15.10.94