

# IRON SHIPS.

No. 2342 Survey held at Glasgow Date 10<sup>th</sup> May Recd 18/5/65  
on the Ship "Cousader" Master ✓  
Tonnage under tonnage deck 985.70 Built at Glasgow When built 1855 Launched 15<sup>th</sup> March/65  
Ditto of poop or spar deck 2.54 By whom built C. Connell & Co. Owners Jno. Ridgett & Sons  
Ditto of engine room ✓  
Total Register tonnage 1058.3 Port belonging to London Destined Voyage Bombay  
Surveyed while Building, Afloat, or in Dry Dock whilst building and afloat

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.	N <sup>o</sup> . of Decks
201.0			25.1			21.4					Two
(Dimensions of Ship per Register, length <u>210.7</u> breadth <u>25.1</u> depth <u>21.4</u> )											
Keel, if bar iron, depth and thickness	Inches in Ship.		Inches required per Rule.								
Keel, if plate iron, breadth and thickness	10 x 2 5/8		18 x 3								
Stem, if bar iron, moulding and thickness	10 x 2 5/8		18 x 3								
Stem, if plate iron, breadth and thickness	10 x 2 5/8		18 x 3								
Stern-post, if bar iron, moulding and thickness	10 x 2 5/8		18 x 3								
Stern-post, if plate iron, breadth and thickness	10 x 2 5/8		18 x 3								
Distance of Frames from moulding edge to moulding edge, all fore and aft	21		21								
Frames, Size of Angle Iron, single or double	5 3		9 3/4		Inches. Inches. 16ths required required						
Reversed Iron, if to every frame	to the upper part of the gunwale		to the gunwale								
Beams, Size of Angle Iron, single or double	5 3		9 3/4								
Floors, depth and thickness of Floor Plate at mid line	2 1/2		10 2 3/4								
Ditto ditto at Bilge Keelson	10		10								
Size of Reversed Angle Iron, and No. at top of Floor Plate	3 1/2		3		10						
Beams, Deck (N <sup>o</sup> . ) double Angle Iron, Plate, Tee, or Bulb Iron	9		9 1/2		10						
Double or single Angle Iron, on upper edge	3 1/2		3		10						
Average space between	3 feet 6 in.		3 feet 8 in.								
Hold, or Lower Deck (N <sup>o</sup> . ) double Angle, Tee, Plate, or Bulb Iron	9		9 1/2		10						
Double or single Angle Iron, on upper edge	3 1/2		3		10						
Average space between	3 feet 6 in.		3 feet 8 in.								
Paddle, sided and moulded, thickness of Plate size of Angle Iron	3 feet 6 in.		3 feet 8 in.								
Engine											
Keelson, single or double plate, box, or intercostal	single plate										
Size of Plates	18		13 1/2		10						
Size of Angle Irons	5 4 1/2		9 1/2		10						
Side, single or double, plate, box, or intercostal	17 1/2		10		10						
Bilge (N <sup>o</sup> . ) at each Bilge, single, or double, plate, or box	5 4 1/2		9 1/2		10						
Transoms, material	Iron Plating, if none, in what manner compensated for.										
Knight-heads, and Hawse Timbers	English Oak & Teak										
The Frames extend in one length from	Middle line to Gunwale rivetted through plates with (7/8 in.) rivets, about (8 in.) apart.										
The reverse angle irons on the floors extend in one length across the middle line from	upper part of Hold Beams to Bilge										
on the frames	from Middle line to Gunwale										
Keelson, how are the various lengths of plates or angle irons connected?	by living pieces										
Plates, Garboard, double or rivetted to keel, double or at upper edge, with rivets (7/8 in.) diameter, averaging (6 1/2 in.) apart.											
Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (7/8 in.) diameter, averaging (5 1/2 in.) apart.											
Butts from Keel to turn of bilge, worked carvel with butt straps (5/8 x 1 1/8) thick, double or single rivetted; with rivets (7/8 in.) diameter, averaging (3 1/2 in.) apart.											
Do the butt straps lap over and rivet through the lands of the strake below?	No										
Edges from bilge to sheerstrake, worked carvel with a living piece ( ) thick, or clencher, double or single rivetted; with rivets (7/8 in.) diameter, averaging (3 1/2 in.) apart.											
Do the butt straps lap over and rivet through the lands of the strake below?	No										
Edges of Sheerstrake, double or single rivetted? At upper edge Single to Bulwarks At lower edge Double											
Butts from bilge to planksheers, worked carvel with butt straps (5/8 x 1 1/8) thick, double or single rivetted; with rivets (7/8 in.) diameter, averaging (3 1/2 in.) apart. Breadth of laps in double rivetting (5 1/2 in.) Breadth of laps in single rivetting ( )											
Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?	Double										
Planksheer, how secured to the plating of the sides	Explain by sketch Iron Bulwarks										
Waterway, planksheer and to the Beams	if necessary. Getting Waterway										
Deck Beams, how secured to the side?	Welded knees rivetted to Frames										
Hold or Lower Deck ditto	D <sup>o</sup>										
Paddle	D <sup>o</sup>										
No. of breasthooks	Four crutches Four										
What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?	Glasgow best Port										
Manufacturer's name or trade mark											
We certify that the above is a correct description of the several particulars therein given.											
Builder's Signature	Charles Connell										
Surveyor's Signature	J. B. Smith										

IRON 438-0254

Lloyd's Register  
Foundation

**Workmanship.** Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivets in double rivetted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? *Yes*

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *Yes. Plated*

Do the fillings between the ribs and plates fill in solid with single pieces? *or are they in short lengths of various thicknesses?* *Yes*

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes* and are the rivet holes well and sufficiently countersunk in the outer plate? *Yes*

Are there any rivets which either break into or have been put through the seams or butts of the plating? *a few in corners of Butts*

Her Masts, Bowsprit, Yards, &c., are in *Good* condition, and sufficient in size and length. (If they are of Iron or Steel give the Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.

4101 *2m*

She has SAILS.		CABLES, &c.			ANCHORS, and their weights.		
No.		Tested by Messrs. Dox & Hartwood Board	Fathoms.	Inches.	Tested to Tons.	No.	Weight. Ex. Stock Tested to Tons.
<i>2</i>	Fore Sails,	Chain <i>4th March 1855</i>	<i>300</i>	<i>1 1/2</i>	<i>55 1/2</i>	Bowers,	<i>3 10.0.12 28 1/2</i>
<i>Double</i>	Fore Top Sails,	Hempen Stream Cable	<i>90</i>	<i>1 1/2</i>			<i>29.3.3 28.12.2</i>
<i>Sub</i>	Fore Topmast Stay Sails,	Hawser					<i>16.1.16</i>
<i>4</i>	Main Sails,	Towlines	<i>90</i>	<i>9 1/2</i>		Stream,	<i>18.0.14 25.14.1 14</i>
<i>Sails</i>	Main Top Sails,	Warp	<i>90</i>	<i>15 1/2</i>			<i>5.1.12</i>
and		All of quality.				Kedges,	<i>2 5.3.0 3.1.0</i>

Her Standing and Running Rigging *Galathea's Hemp* sufficient in size and *Good* in quality.

She has *two* Long Boat and *two* Life Boats and *2 Gigs*

The present state of the Windlass is *new* Capstan *new* and Rudder *new* Pumps *new and efficient*  
*Emerson & Walver's Patent Windlass*

Order for Special Survey	DATES of	1st.
No. <i>554</i>	Surveys held	On the several parts of the frame, when in place, and before the plating was wrought
Date <i>27th Dec 1854</i>	while building	2nd. On the plating during the progress of rivetting <i>Built under Special Survey</i>
Order for Ordinary Survey	as per	3rd. When the beams were in and fastened, and before the decks were laid <i>from the 1st Nov 1854</i>
No. <i>—</i>	Section 18.	4th. When the ship was complete, and before the plating was finally coated <i>to the 10th May 1855</i>
Date <i>—</i>		5th. After the ship was launched

State if she has a Spar Deck *No* Poop *Yes* or Forecastle *Yes*

**General Remarks,**

Foundation Plate fitted to Middle line keelson 12x30 and rivetted to double reverse Angle bars on floors, fitted with an intermediate Intercoastal keelson 1 1/2 x 30 with two Angle Bars 5 x 4 1/2 x 30 Built Bar to Bilge keelson 8 1/2 x 30 extended for three fathoms the length of the ship. Diagonals on both tiers of Beams 14 1/2 x 7 1/2. Butt Straps to Sheerstrake extended over two frames and Triple Rivetted. Butt Straps to Gunwale Plate triple rivetted.

Fore main. Mizzen's Bowsprit formed of four plates 50 x 70 lands double clenchwork, Butts triple cannel rivetted. Topmasts fore & main of 40 steel lands single and Butts double rivetted, with two Angle Bars 2 1/2 x 2 1/2 x 70. Fore main, Crossjack and Topsail Girders of steel two plates 50 x 70 with two Angle Bars 2 1/2 x 2 1/2 x 70 Iron Plate. Glasgow Bailed.

In what manner are the surfaces preserved from oxidation? Inside *Plat of Bottom with Portland Cement*  
Ditto ditto Outside *Red Lead and oil paint*

I am of opinion this Vessel should be Classed *A. 1*

The amount of the Fee .....£ *5* : : : is received by me,

*May 1855* Special .....£ *52.18* : :

Certificate (if required) .....£ *10* : :

Committee's Minute *19th May 1855*

Character assigned *A. 1*

*A. & C. P.*