

IRON SHIPS.

Recd 15/8/71

No. _____ Survey held at Sunderland Date, First Survey _____ Last Survey _____ 18

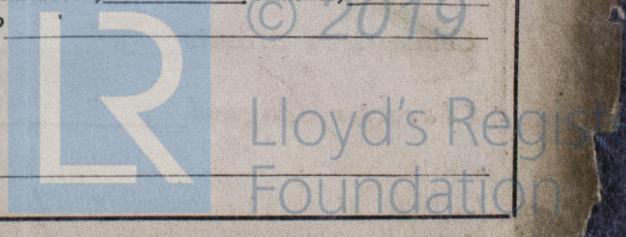
On the Iron Steamer "Blaine" Master Bl...

Tonnage under Tonnage Deck	ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.	THREE DECKED VESSELS.	Built at <u>Middleboro</u>
Ditto of Third Spar, or Awning Deck.	Half moulded breadth ... <u>13.11</u>	Half Moulded Breadth ...	When built <u>1864</u> Launched <u>22 July 1864</u>
Ditto of Poop, or Raised Qr. Dk.	Depth from upper part of Keel to top of Upper Deck Beams ... <u>17.6</u>	Total Depth if three or more Decks ...	By whom built <u>Candlish, Fox & Co.</u>
Ditto of Houses on Deck ...	Girth of Half Midship Frame (as per Rule) ... <u>28.0</u>	Total Girth of Half Midship Frame ...	Owners <u>Coy Bros.</u>
Ditto of Forecastle	1st Number ... <u>59.5</u> Length ... <u>189ft</u>	3rd Number ... Length ...	Port belonging to <u>Cardiff</u>
Gross Tonnage	2nd Number ... <u>11, 228</u>	4th Number ...	Destined Voyage <u>Coasting</u>
Crew Space, as per Rule	Depths to Length. <u>10</u>	Breadths to Length ... <u>6</u>	If Surveyed while Building, Afloat, or in Dry Dock.
Register Tonnage, cut on Beam ...			
Engine Room			
Register Tonnage, as a Steamer, cut on Beam			

Length on deck as per Rule, <u>189</u>	Feet. Inches. Moulded Breadth, <u>27 10</u>	Feet. Inches. Depths from top of Keel to Upper and Main Deck Beams, as per Rule	Feet. Inches. <u>17 6</u>	Power of Engines, _____	Horse. _____	N ^o . of Decks with flat laid <u>One</u>	N ^o . of Tiers of Beams <u>Two</u>
Dimensions of Ship per Register, length, breadth, depth,							
Keel, if bar iron, depth and thickness	Inches in Ship. <u>7 x 2 1/2</u>	Inches required per Rule. <u>7 1/2 x 2 1/4</u>	Flat Keel Plates, breadth and thickness				
Do. if centre through plate, depth and thickness	<u>7 x 2 1/2</u>	<u>7 x 2 1/4</u>	Plates in Garboard Strakes, breadth and thickness				
Stem, if bar iron, moulding and thickness	<u>7 x 2 1/2</u>	<u>7 x 2 1/4</u>	Do. from Garboard to upper part of Bilges				
Stern-post for Rudder do. do.	<u>9 x 4</u>	<u>7 x 4 1/2</u>	Do. of doubling at Bilge, or increased thickness, and length applied				
Stern-post for Propeller	<u>9 x 4</u>	<u>7 x 4 1/2</u>	Do. from up. part of Bilge to lr. edge of Sh'rstrake				
Distance of Frames from moulding edge to moulding edge, all fore and aft	<u>21 ins</u>	<u>22 ins</u>	Do. Main Sheerstrake, breadth and thickness				
		(Class <u>100A</u>)	Do. of d'bling at Sh'rstrake, & length applied				
Frames, size of Angle Iron, for 1/3 length amidships	<u>3 1/2 x 3</u>	<u>3 1/2 x 3</u>	Do. from Mn. to Upr. or Spar Dk. Sh'rstrake.				
Do. for 1/3 at each end	<u>3 1/2 x 3</u>	<u>3 1/2 x 3</u>	Do. Up. or Spar Dk Sh'rstrake, brdth & thckns				
Reversed Frames, size of Angle Iron	<u>3 1/2 x 3</u>	<u>3 1/2 x 3</u>	Butt Straps to outside plating, breadth & thickness				
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	<u>3 x 2 1/2</u>	<u>3 x 2 1/2</u>	Lengths of Plating				
Do. at the ends	<u>9 x 8</u>	<u>9 x 8</u>	Shifts of Plating, and Stringers				
Do. do. do. at Bilge Keelson	<u>9 x 8</u>	<u>9 x 8</u>	Gunwale Plate on ends of <u>Awning Spar</u> , or Upper Deck Beams, breadth and thickness				
Do. height extended at the Bilges	<u>9 x 8</u>	<u>9 x 8</u>	Angle Iron on ditto				
Beams, Upper, Spar, or Awning Deck (No. <u>34</u>)	<u>7 x 7 1/2</u>	<u>7 x 7</u>	Tie Plates (fore and aft), outside Hatchways				
single or double Angle Iron, Plate or Tee Bulb Iron	<u>7 x 7 1/2</u>	<u>7 x 7</u>	Diagonal Tie Plates on Beams (No. of Pairs, <u>3</u>)				
Single or double Angle Iron on Upper edge	<u>2 1/2 x 2 1/2</u>	<u>2 1/2 x 2 1/2</u>	Planksheer material and scantling				
Average space	<u>42 ins</u>	<u>42 ins</u>	Waterways do. do.				
Beams, Main or Middle Deck (No.) single, or double Angle Iron, Plate or Tee Bulb Iron	<u>7 x 7 1/2</u>	<u>7 x 7</u>	Flat of Upper Deck do. do.				
Single or double Angle Iron, on Upper Edge	<u>2 1/2 x 2 1/2</u>	<u>2 1/2 x 2 1/2</u>	How fastened to Beams				
Average space	<u>42 ins</u>	<u>42 ins</u>	Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness				
Beams, Lower Deck, Hold or Orlop (No. <u>33</u>)	<u>7 x 7</u>	<u>7 x 7</u>	(Is the Stringer Plate attached to the outside plating?)				
single or double Angle Iron, Plate or Tee Bulb Iron	<u>7 x 7</u>	<u>7 x 7</u>	Angle Irons on ditto (No.)				
Single or double Angle Iron on Upper Edge	<u>3 x 2 1/2</u>	<u>2 1/2 x 2 1/2</u>	Tie Plates, outside Hatchways				
Average space	<u>2nd & 4th frames alternately</u>	<u>2 1/2 x 2 1/2</u>	Diagonal Tie Plates on Beams (No. of pairs,)				
Keelson Centre line, single or double plate, box, or Intercostal, size of Plates	<u>13 x 11</u>	<u>12 1/4 x 10</u>	Waterways materials and scantlings				
Do. Bulb Plate to Intercostal Keelson	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	Flat of Middle Deck do. do.				
Do. Size of Angle Irons	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	How fastened to Beams				
Do. Side Intercostal Keelson, size of Plates	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	Stringer Plates on ends of <u>Hold or Orlop</u> Beams				
Do. Angle Irons on tops of Floors	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	(Is the Stringer Plate attached to the outside plating?)				
Do. Bilge Keelson, Bulb Iron	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	Angle Irons on ditto (No. <u>One</u>)				
Do. do. Intercostal plates riveted to plating for length	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	Stringer or Tie Plates, outside Hatchways				
Do. do. Angle Irons	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	Flat of Lower Deck				
Side Stringers (No. <u>two</u>) size of Angle Irons	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	Ceiling betwixt Decks, thickness and material				
Do. Intercostal plates riveted to plating for length.	<u>4 1/2 x 3</u>	<u>4 1/2 x 3</u>	Do. in hold do. do.				
			Main piece of Rudder, diameter at head				
			Do. do. at heel				
			(Can the Rudder be unshipped afloat?)				
Transoms, material _____ or, if none, in what manner compensated for.			Bulkheads No. _____ Thickness of _____				
Knight-heads _____ Hawse Timbers _____			Do. Height up _____				
Windlass _____ Pall Bitt _____			Do. How secured to the sides of the ship _____				
The Frames extend in one length from _____ to _____ Riveted through plates with (_____ in.) Rivets, about _____ apart.			Do. Size of Vertical Angle Irons, _____ and their distance apart, _____				
The Reverse Angle Irons on the floors and frames extend _____ the middle line _____ to _____ and to _____ alternately			Do. Are the outside Plates doubled two spaces of Frames in length? _____				
Keelsons. Are the various lengths of Plates and Angle Irons properly connected? _____ And are their butts properly shifted? _____							
Plates, Garboard, double or _____ Riveted to Keel, double or _____ at upper edge, with Rivets (_____ in.) diameter, averaging (_____ ins.) from centre to centre.							
Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (_____ in.) diameter, averaging (_____ ins.) from centre to centre.							
Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (_____) thick, double or single Riveted; with Rivets (_____ in.) diameter averaging (_____ ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? _____							
Do. of _____ Strakes at Bilge for _____ length, treble riveted with Butt Straps _____ thicker than their plates.							
Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece (_____) thick, or clencher, double or single riveted; with rivets (_____ in.) diameter, averaging (_____ ins.) from centre to centre.							
Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge _____ At lower edge _____							
Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (_____) thick, double or single Riveted; with Rivets (_____ in) diameter, averaging (_____ ins) from centre to centre.							
Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for _____ length amidships. Breadth of laps of plating in double Riveting (_____) Breadth of laps of plating in single Riveting (_____)							
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? _____							
Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.)							
Beams of the various Decks, how secured to the sides? _____ No. of Breasthooks, _____ Crutches, _____							
What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.?							
Manufacturer's name or trade mark, _____							

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature, _____ Surveyor's Signature, _____



IRON 449-0162

Workmanship. Are the butts of plating planed or otherwise fitted? 92 58 Iron
 Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? _____
 Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? _____
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? _____ and are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? _____
 Are there any rivets which either break into or have been put through the seams or butts of the plating? _____

Her Masts, Bowsprit, Yards, &c., are in _____ 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 riveting, quality of Materials, and if stamped with Maker's name.*

State also Length and Diameter of Lower Masts and Bowsprit _____

N ^o .	Number for equipment		Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
	SAILS.	CABLES, &c.											
	Fore Sails,	Chain						Bowers					
	Fore Top Sails,	(State Machine where Tested, and name of Superintendent).						(State Machine where Tested, and name of Superintendent).					
	Fore Topmast Stay Sails	Hempen Stream Cable						Stream					
	Main Sails,	Hawser						Kedges					
	Main Top Sails,	Towlines											
	and	Warp											
		All of _____ quality.											

Her Standing and Running Rigging _____ sufficient in size and _____ in quality. She has _____ Long Boat and _____

The present state of the Windlass is _____ Capstan _____ and Rudder _____ Pumps _____

Engine Room Skylights.—How constructed? _____ How secured in ordinary weather? _____

What arrangements are there for deadlights in such for bad weather? _____

Coal Bunker Openings.—How constructed? _____ How are lids secured? _____ How high above deck? _____

Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board? _____

Cargo Hatchways.—How formed? _____ State size _____

If of extraordinary size, state how framed and secured? _____

What arrangement for shifting beams? _____

Hatches, themselves, whether strong and efficient? _____ **Main Hatchways.**—State size _____

Order for Special Survey No. _____ DATES of _____
 Date _____ Surveys held _____
 Order for Ordinary Survey No. _____ while building _____
 Date _____ as per _____
 No. _____ in builder's yard. Section 18. _____

General Remarks,

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, forecandle or raised quarter deck, or of double or part double bottom.

In what manner are the surfaces preserved from oxidation? Inside _____ Outside _____

I am of opinion this Vessel should be Classed _____

The amount of the Entry Fee£ : : is received by me,
 Special£ : :
 Certificate : :

(Travelling Expenses)
 (if any) £ _____

Committee's Minute _____ **18** _____

Character assigned _____



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