

Last Report  
No 3883

# IRON SHIPS.

No. 4845 Survey held at Glasgow

Date 26<sup>th</sup> Dec

1864

on the Screw Schooner "Douro"

Master

Tonnage Gross 528.52 Engine Room 126.08 Register 402.44 Built at Belfast

When Built 1864 Launched 5<sup>th</sup> Nov 1864 By whom built Harland & Wolff

Owners John Bibby & Co Port belonging to Liverpool Destined Voyage Lydia to

If Surveyed Afloat or in Dry Dock Afloat

Clasped

11.64

Last Report No 3883 Iron.

Length aloft ..... Feet. Inches. Extreme Breadth .... Feet. Inches. Depth from top of Upper Deck } Feet. Inches. Beam to top of Floor ..... } Nominal Power of Engines .... 80

	Inches in Ships.		Inches required per Rule.		Inches. 16ths. required	Inches. 16ths. required	Inches. 16ths. required	Inches. 16ths. required	Horse.
	Inches. In Ship.	Inches. In Ship.	Inches. In Ship.	Inches. In Ship.	per Rule.	per Rule.	per Rule.	per Rule.	
Distance of Frames or Ribs from moulding } edge to moulding edge, all fore and aft }									
Floors, Size of Angle Iron, and No. at bottom of Floor Plate .....									
„ depth and thickness of Floor Plate at mid line .....									
„ depth and thickness of Floor Plate at Bilge Keelson .....									
„ Size of Reversed Angle Iron, and No. at top of Floor Plate ..									
Frames, Size of Angle Iron, single or double ..									
„ „ Reversed Iron, if to every frame } or every frame .....									
Beams, Deck (N°. ) double Angle Iron, } Plate, or Bulb Iron .....									
„ double or single Angle Iron, } on edge .....									
„ average space between .....									
„ if wood (N°. ) sided & moulded									
Hold, or Lower Deck (N°. ) } double Angle Iron, Plate, or Bulb Iron }									
„ „ double or single Angle Iron } on edge .....									
„ „ average space between .....									
„ „ if wood (N°. ) sided & moulded									
„ Paddle, wood, sided and moulded, or } if Iron, size of Plate .....									
„ Engine „ „ „ „ „ „ .....									
Keelson, single plate, box, or intercostal ....									
„ Size of Plates .....									
„ Size of Angle Irons .....									
Ditto Bilge (No. )									
Stem, if bar iron, moulding and thickness ....									
„ if plate iron, breadth and thickness ....									
Stern-post, if bar iron, moulding and thickness									
„ „ if plate iron, breadth and thickness									
Keel, if bar iron, depth and thickness .....									
„ if plate iron, breadth and thickness ....									
Garboard Plates, Breadth and thickness .....									
From Garboard to upper } part of Bilge .....									
From upper part of Bilge } to Sheerstrakes .....									
Sheerstrakes, Breadth and thickness .....									
Butt Straps to outside plating, Breadth and thickness .....									
Planksheers .....									
Gunwale Plate or Stringer } on ends of Up. Dk Beams }									
Angle Iron on ditto .....									
Diagonal Tie Plates on Beams									
Waterway .....									
Deck .....									
Ceiling in Hold .....									
Ceiling betwixt Decks ....									
Beam Clamps or Spiketting									
„ Shelf .....									
„ Stringer Plates on } ends of Hold or } Lower Dk Beams }									
Ceiling between Decks ....									
Stringer or Tie Plates out- } side Hatchways .... }									
Deck Beam Clamps or } Spiketting .. }									
„ „ Shelf .....									
Stringers in Hold .....									
Deck, Lower .....									
Deck, Upper, how fastened to Beams									
Bulkheads, N°. Thickness of									
„ how secured to the sides of the ship									
„ size of vertical angle iron and their distance apart									

Transoms, material \_\_\_\_\_ or, if none, in what manner compensated for.

Knight-heads, and Hawse Timbers \_\_\_\_\_

The Frames or Ribs extend in one length from \_\_\_\_\_ to \_\_\_\_\_ rivetted through plates with ( in.) rivets, about ( ) apart.

The reverse angle irons on the floors extend in one length across the middle line from \_\_\_\_\_ to \_\_\_\_\_

„ „ „ on the frames „ „ „ from \_\_\_\_\_ to \_\_\_\_\_

Keelson, how are the various lengths of plates or angle irons connected? \_\_\_\_\_

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets ( ins.) diameter averaging ( in.) from centre to centre of rivet.

„ Edges from Garboards to upper part of bilge, worked carvel with a lining piece ( in.) thick, or clencher, double or single rivetted; rivets ( in.) diameter, averaging ( ins.) from centre to centre of rivets.

„ Butts from Keel to turn of bilge, worked carvel with a lining piece ( ) thick, double or single rivetted; rivets ( in.) diameter, averaging ( ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? \_\_\_\_\_

„ Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; rivets ( in.) diameter, averaging ( in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? \_\_\_\_\_

„ Edge of Sheerstrake, double or single rivetted? \_\_\_\_\_

„ Butts from bilge to planksheers, worked carvel with a lining piece ( ) thick, double or single rivetted; rivets ( in.) diameter averaging ( ins.) from centre to centre of rivets. Breadth of laps in double rivetting ( ) Breadth of laps in single rivetting ( )

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? \_\_\_\_\_

Planksheer, how secured to the plating of the sides { Explain by sketch }

Waterway „ „ planksheer and to the Beams { if necessary. }

Deck Beams, how secured to the side? \_\_\_\_\_

Hold or Lower Deck „ \_\_\_\_\_

Paddle „ „ \_\_\_\_\_

No. of breasthooks \_\_\_\_\_ crutches \_\_\_\_\_ how are pointers compensated? \_\_\_\_\_

What description of iron is used for the angle iron and plate iron in the vessel? \_\_\_\_\_



3926 Im

**Workmanship.** Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? \_\_\_\_\_  
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 rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? \_\_\_\_\_ and are the rivet holes well and sufficiently countersunk in the outer plate? \_\_\_\_\_  
Are there any rivets which either break into or have been put through the seams or butts of the plating? \_\_\_\_\_

Her Masts, Yards, &c., are in Good condition, and sufficient in size and length.

She has SAILS.			CABLES, &c.		ANCHORS, and their weights.		
N <sup>o</sup> .				Fathoms.	Inches.	N <sup>o</sup> .	Weight.
	Fore Sails,	Chain .....	tested to 31 tons..	240	1 5/8	Bower, ..	18. 1. 17
	Fore Top Sails,	" Stream	90	90	1 1/2	Stream,	18. 1. 8
	Fore Topmast Stay Sails,	Hawser .....	90	90	7		17. 0. 19
	Main Sails,	Towlines .....	90	90	5		
	Main Top Sails,	Warp .....				Kedge, .....	3. 2. 11
		All of <u>Good</u> quality.					1. 3. 26

Her Standing and Running Rigging Hemp sufficient in size and Good in quality.

She has Two large boats 24 1/2 feet each Long Boat and Two others 22 feet  
The present state of the Windlass is Good 2 Capstans Good and Rudder Good Pumps 4 had with compression chambers

**General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.**

DATES of Surveys held while building, as per Section 17. 1st. On the several parts of the frame, when in place, and before the plating was wrought A. J. Boulden  
2nd. On the plating during the progress of rivetting Robert L. L.  
3rd. When the beams were in and fastened, and before the decks were laid  
4th. When the ship was complete, and before the plating was finally coated  
5th. After the ship was launched

In what manner are the surfaces preserved from oxidation?

I am of opinion this Vessel should be classed \_\_\_\_\_

The amount of the Fee .....£ : : is received by me,  
Special .....£ : :  
Certificate (if required) .....£ : :

Committee's Minute 3<sup>rd</sup> January 1865  
10<sup>th</sup> 1865

Character assigned AB  
(A.O.C.P.)  
MR