

IRON SHIPS.

No. 2014 Survey held at Plymouth Date 28/1/64
 on the Steamer Orwell Master ✓
 Tonnage Gross 179 Engine Room 29 Register 90 Built at Blackwall
 When Built 1839 By whom built Manila Owners R J Brown & Co
 Port belonging to London Destined Voyage ✓
 Surveyed Afloat or in Dry Dock On a Rail Ship

Length aloft	Feet. <u>148</u> Inches. <u>5</u>	Extreme Breadth	Feet. <u>22</u> Inches. <u>1</u>	Depth from top of Upper Deck Beam to top of Floor	Feet. <u>9</u> Inches. <u>4</u>	Power of Engines	Horse No. <u>80</u>
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	16ths required per Rule.	16ths required per Rule.
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	Inches. In Ship.	Inches. In Ship.	16ths In Ship.	Inches. required per Rule.	Inches. required per Rule.	16ths required per Rule.	16ths required per Rule.
„ depth and thickness of Floor Plate at mid line	<u>9</u>	<u>-</u>	<u>4</u>				
„ depth and thickness of Floor Plate at Bilge Keelson							
„ Size of Reversed Angle Iron, and No. at top of Floor Plate	<u>2 1/2</u>	<u>2 1/2</u>	<u>6</u>				
Frames, Size of Angle Iron, single or double							
„ „ Reversed Iron, if to every frame or every frame							
Beams, Deck (N ^o) double Angle Iron or Bulb Iron with double Angle Iron on top	<u>5</u>	<u>+</u>	<u>8</u>				
„ „ depth & thickness of plate amidships							
„ „ double or single Angle Iron, on lower edge							
„ „ average space between							
„ „ if wood (N ^o) sided & moulded							
„ Hold, or Lower Deck (N ^o) double Angle Iron or Bulb Iron with double Angle Iron on top							
„ „ depth & thickness of plate amidships							
„ „ double or single Angle Iron, on lower edge							
„ „ average space between							
„ „ if wood (N ^o) sided & moulded							
„ Paddle, wood, sided and moulded or if Iron, size of Plate							
„ Engine							
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	<u>7</u>	<u>-</u>	<u>11</u>				
„ Side or Bilge							
„ Number							
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, thickness							
From Garboard to upper part of Bilge							
From upper part of Bilge to Sheerstrakes							
Sheerstrakes							
Breadth & thickness of Butt Straps to outside plating							
Planksheers							
Gunwale Plate or Stringer on ends of Up. Dk Beams							
Angle Iron on ditto							
Waterway							
Deck							
Ceiling in Hold							
Ceiling betwixt Decks							
Beam Clamps							
„ Shelf							
„ Stringer Plates on ends of Hold or Lower Dk Beams							
Ceiling between Decks							
Stringer or Tie Plates outside Hatchways							
Deck Beam Clamps							
„ „ Shelf							
Stringers in Hold							
Deck, Lower							
Deck, Upper, how fastened to Beams							

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

Knight-heads „ _____ Bulkheads, N^o. _____ Thickness of _____
 Hawse Timbers „ _____ are they free from defects? „ how secured to the sides of the ship _____

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 planksheer, worked carvel with a lining piece (_____) thick, 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? _____

„ Butts from bilge to planksheers, worked carvel with a lining piece (_____) thick, or clencher, 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 (_____)

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

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

Side trussing _____ breadth and thickness of plates _____ how secured? _____

Deck trussing „ „ „ „ ? _____

Deck Beams, how secured to the side? on Wood Plank

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? _____

Builder's Signature

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IRON437A-0104

3675 Iron

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 _____ condition, and sufficient in size and length.

She has SAILS.

CABLES, &c.

ANCHORS, and their weights.

N ^o .		Fathoms.	Inches.	N ^o .	Weight.
	Fore Sails,	Chain			
	Fore Top Sails,	Hempen Stream Cable			
	Fore Topmast Stay Sails,	Hawser			
	Main Sails,	Towlines			
	Main Top Sails,	Warp			
	and	All of <u>good</u> quality.			

Her Standing and Running Rigging _____ sufficient in size and _____ in quality.

She has _____ Long Boat and _____

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

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 _____
 - 2nd. On the plating during the progress of rivetting _____
 - 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 _____

This vessel put into Plymouth leaky owing as it appeared on Survey to the defective state of the Plating from the light water mark up and which was generally of so extensive a character as to necessitate its entire removal. The Bottom and other parts however although passable were not thought worth the outlay such a repair would incur, and Wood Sheathing was therefore resorted to as the only means to save her from being condemned. This has been effected by introducing 1 1/2 inch teak plank vertically between all the frames from just above the turn of Bilge to the Deck which serve as timbers and to which the Sheathing, 2 1/2 inch Red Pine, is secured by screw bolts and nuts. The whole being Caulked and made watertight and Sheathed with Zinc, an additional Deck Shelf extending 7 1/2 ft amidships has also been put in. She is now in my opinion fit to carry dry and perishable cargoes and worthy to be ^{so} Classed.

In what manner are the surfaces preserved from oxidation?

I am of opinion this Vessel should be classed F1

The amount of the Fee£ 2 : 0 : 0 is received by me.

June 1864 Special£ 4 : 4 : 0

Certificate (if required)£ : 2 : 6

Committee's Minute 28th June 1864

Character assigned _____



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