

IRON SHIP.

No. 3362 Survey held at Stockton Date, First Survey 23rd Feb^r Last Survey 28th Sept^r 1844
 On the Screw Steamer "Madras" Yard Number 135 Master R. S. Clark 11th 8/11/44
TONNAGE under Tonnage Deck 1659 6/4 **ONE, OR TWO DECKED, THREE DECKED VESSEL.**
 Ditto of Third, Spar, or Awning Deck. 12 1/2 **SPAR, OR AWNING DECKED VESSEL.**
 Ditto of Poop, or Raised Or. Dk. 12 1/2 **HALF BREADTH** (moulded) 16-6 **Built at** Stockton
 Ditto of Houses on Deck 12 1/2 **DEPTH** from upper part of Keel to top of Upper Deck Beams 26-5 1/2 **When built** 1844 **Launched** July 30th 1844
 Ditto of Forecastle 12 1/2 **GIRTH** of Half Midship Frame (as per Rule) 38-3 1/2 **By whom built** Pearse & Co
 Gross Tonnage 1642 3/4 **1st NUMBER** 81-3 **Owners** Wilkinson Watt & Co
 Less Crew Space 64 1/2 **1st NUMBER, if a THREE DECKED VESSEL** deduct 7 feet 74-8 **Port belonging to** London
 Less Engine Room 53 5/16 **2nd NUMBER** 19936 **Destined Voyage** Mediterranean
 Register Tonnage as cut on Beam 1069 5/16 **PROPORTIONS—Breadths to Length** Over 8 **If Surveyed while Building, Afloat, or in Dry Dock.**

LENGTH on deck as per Rule 268-6 **BREADTH** Moulded 33-0 **DEPTH** top of Floors to Upper Deck Beams 26-5 1/2 **Power of Engines** 170 **N^o. of Decks with flat laid** Two
 Ditto Do. Main Deck Beams 17 1/2 **N^o. of Tiers of Beams** Three
 Dimensions of Ship per Register, length, 268 breadth, 33 depth, 26 1/2
KEEL, depth and thickness 1 1/2 x 2 1/2 **PLATES** in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of double at Bilge, or increased thickness, and length applied for 1/2 length fin up part of Bilge to l. edge of Sh'rstrake
STEM, moulding and thickness 1 x 2 1/2 **Main Sheerstrake**, breadth and thickness of d'bing at Sh'rstrake, & length applied from Mn. to Up. or Spar Dk. Sh'rstrake. Up. or Spar Dk Sh'rstrake, brdth & thickness
STERN-POST for Rudder do. do. 1 x 5 **Butt Straps** to outside plating, breadth & thickness
 Distance of Frames from moulding edge to moulding edge, all fore and aft 24 (Class 90A1)
FRAMES, Angle Iron, for $\frac{1}{2}$ length amidships 4 1/2 **Lengths of Plating** 120
 Do. for $\frac{1}{2}$ at each end 4 1/2 **Shifts of Plating, and Stringers** 48
REVERSED FRAMES, Angle Iron 3 **Gunwale Plate** on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness 38
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships 2 1/2 **Angle Iron** on ditto 4 x 4 x 9/16
 thickness at the ends of vessel 2 1/2 **Tie Plates** fore and aft, outside Hatchways 12 1/2
 depth at $\frac{1}{2}$ the half-bdth. as per Rule 12 **Diagonal Tie Plates** on Beams No. of Pairs, 6
 height extended at the Bilges 18 **Planksheer material and scantling** Gutter
BEAMS, Upper, Spar, or Awning Deck 48 **Waterways** do. do. 4 1/2
 Single or d'ble Ang. Iron, Plate or Tee Bulb Iron 6 1/2 **Flat of Upper Deck** do. do. 4 1/2
 Single or double Angle Iron on Upper edge 2 1/2 **How fastened to Beams** 3/8
 Average space 48 **Stringer Plate** on ends of Main or Middle Deck Beams, breadth and thickness 4 1/2
BEAMS, Main or Middle Deck 8 **Is the Stringer Plate attached to the outside plating?** Yes
 Single or d'ble Ang. Iron, Plate or Tee Bulb Iron 8 **Angle Irons** on ditto, No. 2
 Single or double Angle Iron, on Upper Edge 3 **Tie Plates**, outside Hatchways 12 1/2
 Average space 48 **Diagonal Tie Plates** on Beams, No. of pairs 6
BEAMS, Lower Deck, Hold or Orlop 9 **Waterways materials and scantlings** 3 1/2
 Single or d'ble Ang. Iron, Plate or Tee Bulb Iron 9 **Flat of Middle Deck** do. do. 3 1/2
 Single or double Angle Iron on Upper Edge 4 1/2 **How fastened to Beams** 3/8
 Average space 48 **Stringer Plates** on ends of Lower Deck, Hold or Orlop Beams 33
KEELSONS Centre line, single or double plate, box, or Intercoastal, Plates 1 1/2 **Is the Stringer Plate attached to the outside plating?** Yes
 Rider Plate 1 **Angle Irons** on ditto, No. 3
 Bulb Plate to Intercoastal Keelson 1 **Stringer or Tie Plates**, outside Hatchways 12 1/2
 Angle Irons 5 1/2 **Flat of Lower Deck** 3 1/2
 Double Angle Iron Side Keelson 5 1/2 **Ceiling** betwixt Decks, thickness and material 2 1/2
 Side Intercoastal Plate 3 1/2 **in hold** do. do. 2 1/2
 do. Angle Irons 3 1/2 **Main piece of Rudder**, diameter at head 6 1/2
 Attached to outside plating with angle iron 18 **do. at heel** 3 1/2
BILGE Angle Irons 5 1/2 **Can the Rudder be unshipped afloat?** Yes
 do. Bulb Iron 5 1/2 **Bulkheads** No. 1 Thickness of 1/4
 do. Intercoastal plates riveted to plating for length 8
BILGE STRINGER Angle Irons 5 1/2 **Height up** Upper & Main Deck Cabin floor plated over
SIDE STRINGER Angle Irons 5 1/2 **How secured** to sides of ship Double Frames
 Transoms, material. Knight-heads. Hawse Timbers. Plating & Angles **Size of Vertical Angle Irons** 3 x 3 x 1/4 and distance apart 30 ins.
 Windlass Patent **Are the outside Plates doubled** two spaces of Frames in length? Yes

The **FRAMES** extend in one length from Keel to gunwale Riveted through plates with 1/8 in. Rivets, about 1/4 apart.
 The **REVERSED ANGLE IRONS** on floors and frames extend across middle line to Main Deck Stringers and to gunwale alternately
KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes And butts properly shifted? Yes
PLATING. Garboard, double riveted to Keel, with rivets 1/8 in. diameter, averaging 5 1/2 ins. from centre to centre.
 Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 1/8 in. diameter, averaging 3 1/2 ins. from centre to centre.
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 1/8 in. diameter averaging 3 1/2 ins. from centre to centre.
 Butts of Three Strakes at Bilge for one-half length, treble riveted with Butt Straps 1/8 thicker than the plates they connect.
 Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets 1/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 1/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.
 Edges of Main Sheerstrake, double or single riveted. **Upper Sheerstrake**, double or single riveted.
 Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 1/2 length amidships.
 Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/2 length.
 Breadth of laps of plating in double riveting 1 1/2 Breadth of laps of plating in single riveting 1 1/2
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?
 Waterway, how secured to Beams Butt (Explain by Sketch, if necessary.)
 Beams of the various Decks, how secured to the sides? Beam ends lugged & welded No. of Breasthooks, Five Crutches, None
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? good
 Manufacturer's name or trade mark, Hopkins & Co & Hartlepool Malleable Co

The above is a correct description.
 Builder's Signature, M. Beckett Surveyor's Signature, Wm. Beckett
 IRON 458-0392

1874
March 18th
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Workmanship. Are the butts of plating planed or otherwise fitted? Planed

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

Are the fillings between the ribs and plates solid single pieces? Solid press

Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes

Do any rivets break into or through the seams or butts of the plating? Some in Butts

13340 Lm

Masts, Bowsprit, Yards, &c. Iron & S. Pine in good condition, and sufficient in size and length. If of Iron or Steel give 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 Fore Mast 80' 3" x 23" live plates in the round plates 1/16" doubled for 1/16" in wales of deck, beams single riveted, butts below deck double riveted above deck treble riveted.

Main Mast 74' 6" x 23" in other respects same as Fore Mast

NUMBER for EQUIPMENT		Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule	Test req'd per Rule.	ANCHORS, &c.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	Weight req'd per Rule.	Test req'd per Rule.
SAILS.												
Fore Sails,												
Fore Top Sails,												
Fore Topmast Stay Sails												
Main Sails,												
Main Top Sails,												
and												
CABLES, &c.												
Chain												
Horn Strm Cbl												
Hawser												
Towlines												
Warp												
quality												

Standing and Running Rigging Wire & Hemp sufficient in size and good in quality. She has two Long Boats and four others

The Windlass is good Capstan good and Rudder good Pumps three of Metal, good

Engine Room Skylights. How constructed? 1/16" Iron comings How secured in ordinary weather? of Bulls eyes

What arrangements for deadlights in bad weather? Bulls eyes

Coal Bunker Openings. How constructed? Iron comings How are lids secured? Bars Height above deck? 2'

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? Cup scuppers each side open

Cargo Hatchways. How formed? 1/16" Iron comings

State size Main Hatch 24' x 11' Forehatch 12' x 8' Quarterhatch 24' x 11'

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

What arrangement for shifting beams? Centre plate 36' x 1/16" double angles 3' x 3' x 1/16" & live for a afters

Hatches, If strong and efficient? Yes

Order for Special Survey No. 1874 Date 25th Feb 1874

Order for Ordinary Survey No. 1874 Date 25th Feb 1874

No. 1874 in builder's yard

General Remarks, (State quality of workmanship &c.) good

Has a water Ballast Tank in Afters Hold. Range plate 1/16"

angles to 3' x 3' x 1/16" binders 1/16" angles to 3' x 2' x 1/16" top of tank 1/16"

The Main Deck is of Iron 1/16" thick over Engine & Boiler spaces.

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

How are the surfaces preserved from oxidation? Inside Cement & Paint Outside Paint

I am of opinion this Vessel should be Classed GOA

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

Special ... £ 65 : 2 : 6th Oct 1874

Certificate ... : : 1874

(Travelling Expenses) (if any) £

Committee's Minute 7th October 1874

Character assigned GOA

2 Dks 3 Tds Bree

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