4016

IRON SHIPS.

Rec 15/3/65

No. 19262 Survey held at Liverpool Date May 5th/64 to Feby 22nd 1865

on the Bk Coronilla Master L Tate

Tonnage under tonnage deck 507 37/100 Built at Liverpool When built 1864 & 1865 Launched January 2/65

Ditto of ~~poop~~ Break 16 78/100 or spar deck By whom built R & J Evans Owners John Gambles

Ditto of engine room

Total Register tonnage 524 15/95 Port belonging to Liverpool Destined Voyage America

If Surveyed while Building, Afloat, or in Dry Dock While Building on Brunswick Graving Docks

PLANS CASE

Builders length aloft	Feet. 150	Inches.	Extreme Breadth	Feet. 26	Inches. 8	Depth from top of Upper Deck Beam to top of Floor	Feet. 17	Inches. 6	Power of Engines	Horse.	N°. of Decks one

Dimensions of Ship per Register, length 155-9 breadth 26-4 depth 17-6

	Inches in Ship.			Inches required per Rule.		
Keel, if bar iron, depth and thickness	7	×	2½	7	×	2½
,, ~~if plate iron, breadth and thickness~~						
Stem, if bar iron, moulding and thickness	7	×	2½	7	×	2½
,, ~~if plate iron, breadth and thickness~~						
Stern-post, if bar iron, moulding and thickness	7	×	2½	7	×	2½
,, ,, ~~if plate iron, breadth and thickness~~						
Distance of Frames from moulding edge to moulding edge, all fore and aft	21			21		

	Inches. In Ship.	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	Inches. required per Rule.	16ths required per Rule.
Frames, Size of Angle Iron, single ~~or double~~ (4 feet frames at middle line)	3½	2¾	7/16	3¾	2¾	7/16
,, ,, Reversed Iron, if to every frame or every alternate frame (and Reversed)	3	2½	6/16	3	2½	6/16
Floors, depth and thickness of Floor Plate at mid line	18	ends	8/16 7/16	18¼	ends	8/16 7/16
,, Ditto ditto at Bilge Keelson	13			—		—
,, Size of Reversed Angle Iron, (& Bilge) and No. one at top of Floor Plate	42	See Sketch		36½		—
Beams, Deck (N°.) ~~double Angle Iron, Plate, Tee, or~~ Bulb Iron (& Double in lieu of Bulb iron at alternate frames)	3	2½	6/16	3	2½	6/16
,, ,, double ~~or single~~ Angle Iron, on upper edge	6½	—	7/16	6½	—	7/16
,, ,, average space between	3	2½	5/16	2½	2½	5/16
Hold, or Lower Deck (N°.) ~~double Angle, Tee, Plate~~, or Bulb Iron (at 2 ft 6 frames)	42	—	—	42	—	—
,, ,, double ~~or single~~ Angle Iron on upper edge	6½	full	7/16	6½		7/16
,, ,, average space between	2¾	2½	6/16	3	2½	6/16
,, ~~Paddle, sided and moulded, ____ thickness of Plate ____ size of Angle Iron~~	42	84	—	42	84	—
,, Engine ,, ,, ,, ,,						
Keelson, ~~single or~~ double plate, ~~box, or intercostal~~	top plate		10×8/16			
,, Size of Plates	14	—	8/16	12	—	10/16
,, Size of Angle Irons (Cf. Bilge)	4	3	6/16	4¼	3¼	7/16
,, ~~Side, single or d'ble, plate, box, or intercostal~~	4	3	7/16			
,, Bilge (No. one) at each Bilge (~~single or~~ double, ~~plate, or box~~ with Bulb iron between 6½ × 8/16, also Extra N°. 1 in Sketch)	4	4	8/16	4¼	3¼	7/16

	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	16ths required per Rule.
Plates in Garboard Strakes, breadth and thickness	30	9/16	30	9/16
Ditto from Garboard to upper part of Bilges (Bilge Strakes)	full	9/16		10/16
,, from upper part of Bilge to a perpendicular height from upper side of Keel of ⅗ths the entire depth of Hold	2 strakes above Bilge	9/16 ends 8/16 8/16 ends 7/16		9/16
,, from ⅗ths depth of Hold to lower edge of Sheerstrake		8/16 ends 7/16	ends	8/16 7/16
,, Sheerstrake, breadth and thickness	30½	10/16 ends 9/16	30	10/16 9/16
Butt Straps to outside plating, breadth and thickness	10 like	same	thickness as plates	
Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	26 24	8/16 ends	22¼ 16½	8/16 ends
Angle Iron on ditto	4 ×	4 × 8/16	4¼ ×	3¼ × 7/16
Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways	10	7/16	9¾	8/16
Diagonal Tie Plates on Deck ditto (Deck Beams)	10	7/16	9¾	8/16
Planksheer, materials and scantlings (Abreast Deck Main)				
Waterway ditto ditto				
Flat of Upper Deck, thickness and material	4 Y. Pine		3½	
,, ,, how fastened to Beams	Nut & screw		Bolts	Galvanized
Ceiling betwixt Decks and in Hold, thickness and material	Deck Plan Y. Pine		2½ 2	
Clamps or Spirketting ditto	16	× 7/16		
Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	18	8/16	16½	8/16
Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams	Single hgs 4 × 4 × back to back	8/16	9¾	8/16
Stringers in Hold (Vertical Angle Irons)	4 × 4 ×	3/16	4¼ ×	3¼ × 7/16
Flat of Lower Deck, thickness and material (Bulb Iron between 6½ × 8/16)	3 Y. pine		partial	
Main piece of Rudder, diameter at head	4½		4½	
,, ,, ,, at heel	2¾		2¾	
(Can the Rudder be unshipped afloat Yes)				
Bulkheads, N°. one forward Thickness of plates		6/16		6/16

Height up to upper Deck

,, how secured to the sides of the ship Single frames & Brackets

,, size of vertical angle irons 3 × 2½ × 6/16 and their distance apart 30 inches

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

Knight-heads, and Hawse Timbers plates & angle iron

The Frames extend in one length from Keel to Gunwale rivetted through plates with (12/16 in.) rivets, about (2½ ft.) apart.

The reverse angle irons on the floors extend in one length across the middle line ~~from~~ to lower Bilge Stringer thence to lower Deck Clamp alternate

,, ,, ,, on the frames ,, ,, ,, from Middle line to upper Bilge Stringer thence to Gunwale alternate

Keelson, how are the various lengths of plates or angle irons connected? By covering pieces well fitted

Plates, Garboard, double ~~or~~ rivetted to keel, double ~~or~~ at upper edge, with rivets (12/16 × 14/16 ins.) diameter, averaging (4½ × 2¾ in.) apart.

,, Edges from Garboards to upper part of bilge, worked clencher, double ~~or single~~ rivetted; with rivets (12/16 in.) diameter, averaging (3 ins.) apart.

,, Butts from Keel to turn of bilge, worked carvel with butt straps (9-10-8 × 8/16) thick, double ~~or single~~ rivetted; with rivets (12/16 & 12/16 in.) diameter, averaging (2¾ × 3 ins.) 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 lining piece ( ) thick,~~ or clencher, double* ~~or single~~ rivetted; with rivets (12/16 in.) diameter, averaging (3 in.) apart. Do the butt straps lap over and rivet through the lands of the strake below? No

* Except the lower edge of the strake next to the sheerstrake which is single

,, Edges of Sheerstrake, double ~~or single~~ rivetted? At upper edge to Gunwale Angle Iron At lower edge double

,, Butts from bilge to planksheers, worked carvel with butt straps (7, 8, 9 × 10/16) thick, double ~~or~~ ~~single~~ rivetted; with rivets (12/16 in.) diameter, averaging (3 ins.) apart. Breadth of laps in double rivetting (4½) Breadth of laps in single rivetting (2½)

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 if necessary. } as per Sketch appended

Waterway ,, ,, planksheer and to the Beams

Deck Beams, how secured to the side? By Welded Knees 21 inches long and rivetted to frames

Hold or Lower Deck ditto Do -"- 21 -"- -"- -"- -"- -"-

Paddle ,, ,, No. of breasthooks four at each end ~~crutches~~

What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? Staffordshire & Yorkshire best

Manufacturer's name or trade mark Ravensdales Middlesbro &c.

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

Builder's Signature R & J Evans & Co *Surveyor's Signature* E. C. Wheeler

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IRON438-0165

4010 Iron

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 fay close together throughout their length without requiring any making good of deficiencies? yes

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

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? generally so 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? None

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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.*

Fore Mast (Iron) 63 ft × 22 in Dia formed of 2 plates 6/16 thick with 3 Angle Irons 3×3×6/16 single rivetted in Seams & double in Butts
Main " 63-10 × 22 -"- 2 -"- 6/16 -"- 3 -"- 3×3×6/16 Do -"- -"- -"- -"- -"-
Bowsprit " 30 × 22 -"- 2 -"- 6/16 -"- 3 -"- 3×3×6/16 Do -"- -"- -"- -"- -"-
Fore & Main Yards (Steel) 37-8 × 14 -"- 2 -"- 3/16 & 4/16 3 Steel 2½×2×3/16 do -"- -"- -"- -"- -"-
Mizen Mast 66-6 × 16 Pitch pine
Topmast with other yards & Spars Red & Spruce pine

She has **SAILS.**

No.	
2 doubles	Fore Sails,
	Fore Top Sails,
	Fore Topmast Stay Sails,
	Main Sails,
	Main Top Sails,
and	

CABLES, &c.

	Fathoms.	Inches.	Tested to Tons.
Chain Tiptow Machine Test produced dated Nov 19/64 Dec 3/64	270	1 1/16	37-4-0
Hempen Stream Cable	45	14 1/16	12-4-0
Hawser	90	9	
Towlines	90	6½	
Warp	90	5	
All of best quality.	90	4	

ANCHORS, and their weights.

	No.	Weight.	Tested to. Tons.
Bowers, Tiptow Machine Test produced date Nov 19/64	1	19.0.15 / 4.1.7 / 23.1.25	20.0.0
	1	19.0.0 / 4.3.12 / 23.1.12	19.17.2
Stream, Tiptow dated Nov 18/64 Nursey & Co Dated July 4/64	1	16.0.4 / 3.2.4 / 19.2.8	21-15-0
Kedges,		8.2-9 / 4.1.2 / 2.1.5	

Her Standing and Running Rigging Wire & Hemp sufficient in size and best in quality.

She has one Long Boat and Three others

The present state of the Windlass is good Capstan's good and Rudder good Pumps Main & fore Dia & Pump in fore Compartment

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Order for Special Survey No. 337 Date 10th Aug 1864
Order for Ordinary Survey No. ____ Date ____

DATES of Surveys held while building as per Section 18.

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 During the whole time of Building
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 fitting out
5th. After the ship was launched ____

State if she has a Spar Deck ____ Poop ____ or Forecastle Monkey Quarter feet long

General Remarks,

Has a raised Quarter Deck 44 feet long × 24 Inches high Beams at alternate Frames of Bulb Iron 6 × 6/16 having two Angle Irons 3×2½×6/16 on upper edge Stringer Plates 21 in × 8/16 Deck Feet 15 in × 8/16 & Deck Yellow Pine 3 Inches thick also a Deck House 11 ft × 7 ft 9 fitted aft side of Fore Mast

The Bulb Iron of Bilge Keelson and the Extra (marked No 1 in Sketch) Keelson are fitted on top of the Floors only, but in the Hold Stringer all fore and aft.

I herewith append the Midship Section with Scantlings as submitted by the Builders to the Committee and sanctioned, in accordance with which the Vessel is Built

Is well Built throughout

In what manner are the surfaces preserved from oxidation? Inside Portland Cement in bottom & Red Lead
Ditto ditto Outside Composition & other paint

I am of opinion this Vessel should be Classed ✝ A1

The amount of the Fee .....£ 5 : " : " is received by me,
Special .....£ 26 : 4 : " 6/3/65
Certificate (if required) .....£ Gratis

E. C. Wheeler

Committee's Minute Liverpool, 7th March, 1865.

Character assigned A1 - Built under Special Survey

GK (A. & C. P.)

Exd. J. R. L. 15 March 1865

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