

# IRON SHIP.

Rec'd 19th April 1883.

No. 16440 Survey held at *Newcastle* Date, First Survey 27<sup>th</sup> September 1882 Last Survey 9<sup>th</sup> April 1883  
On the *Iron S.S. Rigged Screw Steamer "Chollerton"*

TONNAGE under Tonnage Deck } 2579.34  
Ditto of Third Spar, or of Lower Deck }  
Ditto of Poop, or Raised Or. Dk. }  
Ditto of Houses } 67.89  
Ditto of Forecastle } 2.55  
Gross Tonnage } 2649.78  
Less Crew Space } 68.03  
Less Engine Room } 847.93  
Register Tonnage } 1733.82  
(as cut on Beam)

ONE, OR TWO-DECKED, THREE-DECKED VESSEL,  
SPAR, OR AWNING-DECKED VESSEL.  
Half Breadth (moulded) ... 18.4  
Depth from upper part of Keel to top of Upper Deck Beams 22.0  
Girth of Half Midship Frame (as per Rule) ... 35.5  
1st Number ... 75.9  
1st Number, if a 3-Decked Vessel .. deduct 7 feet  
Length ... 314.5  
2nd Number ... 238705  
Proportions— Breadths to Length ... 8.5  
Depths to Length—Upper Deck to Keel ... 10.66  
Main Deck ditto ... 14.29

Master *James Clark*  
Built at *Newcastle*  
When built 1882 & 3 Launched 22<sup>nd</sup> Feb. 1883  
By whom built *Messrs. A. Leslie & Co.*  
Owners *W. Milburn & Co.*  
Residence *London & Newcastle*  
Port belonging to *London*  
Destined Voyage *London to load for Australia*  
If Surveyed while Building, Afloat, or in Dry Dock, *While building*

LENGTH	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH	Feet.	Inches.	Power of	Horse.	Nº. of Decks with flat laid	Nº. of Tiers of Beams
on deck as per Rule ...	314	6	Moulded ...	36	10	top of Floors to Upper Deck Beams ... Do. do. Main Deck Beams ...	27	6	Engines ...	300	Two	Three
Dimensions of Ship per Register, length, 317.2 breadth, 37.1 depth, 27.25												
KEEL, depth and thickness ...	10 x 2 3/4		10 x 2 3/4		10 x 2 3/4		10 x 2 3/4		Flat Keel Plates, breadth and thickness ...			
STEM, moulding and thickness ...	10 x 2 3/4		10 x 2 3/4		10 x 2 3/4		10 x 2 3/4		PLATES in Garboard Strakes, br'dth & thickness ...			
STERN-POST for Rudder do. do. ...	10 x 5 1/2		10 x 5 1/2		10 x 5 1/2		10 x 5 1/2		,, From Garboard to upper part of Bilges ...			
Distance of Frames from moulding edge to moulding edge, all fore and aft ...	24 ins		24 ins		24 ins		24 ins		,, Of d'bling at Bilge, or increased thickness, and length applied 2 Strakes ...			
FRAMES, Angle Iron, for 1/2 length amidships ...	5 3 8		5 3 8		5 3 8		5 3 8		,, From up. prt of Bilge to lr. edge of Sh'rstrake ...			
Do. for 1/2 at each end ...	5 3 7		5 3 7		5 3 7		5 3 7		,, Main Sheerstrake, breadth and thickness ...			
REVERSED FRAMES, Angle Iron ...	3 3 7		3 3 7		3 3 7		3 3 7		,, Of d'bling at Sh'stk. & Ing. applied ...			
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships ...	23 1/2 9		23 1/2 9		23 1/2 9		23 1/2 9		,, From M'n. to Upper Spar Dk. Sh'rstrake ...			
thickness at the ends of vessel ...	12		12		12		12		,, Upper Spar Dk Sh'rstrake, br'dth & thicken's ...			
depth at 1/2 the half-bdth. as per Rule ...	12		12		12		12		Butt Straps to outside plating, breadth & thickness ...			
height extended at the Bilges ...	a fair taper		a fair taper		a fair taper		a fair taper		Lengths of Plating ...			
BEAMS, Upper, Spar, or Lower Deck ...	7 1/2 7		7 1/2 7		7 1/2 7		7 1/2 7		Shifts of Plating, and Stringers ...			
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron ...	3 3 6		3 3 6		3 3 6		3 3 6		Gunwale Plate on ends of ...			
Single or double Angle Iron on Upper edge ...	3 3 6		3 3 6		3 3 6		3 3 6		Upper Deck Beams, breadth and thickness ...			
Average space ...	alternate frames		alternate frames		alternate frames		alternate frames		Angle Iron on ditto ...			
BEAMS, Main, or Middle Deck ...	6 3 9		6 3 9		6 3 9		6 3 9		Tie Plates fore and aft, outside Hatchways ...			
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron ...	6 3 9		6 3 9		6 3 9		6 3 9		Diagonal Tie Plates on Beams No. of Pairs ...			
Single or double Angle Iron, on Upper Edge ...	6 3 9		6 3 9		6 3 9		6 3 9		Flat of Upper, Spar, or Lower Dk. ...			
Average space ...	on every frame		on every frame		on every frame		on every frame		How fastened to Beams ...			
BEAMS, Lower Deck ...	10 10		10 10		10 10		10 10		Stringer Plate on ends of Main or Middle Deck ...			
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron ...	4 4 9		4 4 9		4 4 9		4 4 9		Beams, breadth and thickness ...			
Single or double Angle Iron on Upper Edge ...	4 4 9		4 4 9		4 4 9		4 4 9		Is the Stringer Plate attached to the outside plating? ...			
Average space ...	4 to 12 frame spaces		4 to 12 frame spaces		4 to 12 frame spaces		4 to 12 frame spaces		Angle Irons on ditto, No. 2 ...			
BEAMS, Hold, or Orlop ...	10 10		10 10		10 10		10 10		Tie Plates, outside Hatchways ...			
Single or d'ble Ang. Iron, Plate or Tee Bulb Iron ...	4 4 9		4 4 9		4 4 9		4 4 9		Diagonal Tie Plates on Beams, No. of pairs ...			
Single or double Angle Iron on Upper Edge ...	4 4 9		4 4 9		4 4 9		4 4 9		Flat of Middle Deck* do. ...			
Average space ...	4 to 12 frame spaces		4 to 12 frame spaces		4 to 12 frame spaces		4 to 12 frame spaces		How fastened to Beams ...			
KEELSONS Centre line, single or double plate, ...	19 13		19 13		19 13		19 13		Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ...			
do. Rider Plate ...	13 13		13 13		13 13		13 13		Is the Stringer Plate attached to the outside plating? ...			
do. Bulb Plate to Intercoastal Keelson ...	6 4 9		6 4 9		6 4 9		6 4 9		Angle Irons on ditto, No. 2 ...			
do. Angle Irons ...	6 4 9		6 4 9		6 4 9		6 4 9		Stringer or Tie Plates, outside Hatchways ...			
do. Double Angle Iron Side Keelson ...	6 4 9		6 4 9		6 4 9		6 4 9		Flat of Lower Deck* ...			
do. Side Intercoastal Plate ...	6 4 9		6 4 9		6 4 9		6 4 9		Battens			
do. do. Angle Irons ...	6 4 9		6 4 9		6 4 9		6 4 9		Ceiling betwixt Decks, thickness and material ...			
do. Attached to outside plating with angle iron ...	3 1/2 3 1/2 8		3 1/2 3 1/2 8		3 1/2 3 1/2 8		3 1/2 3 1/2 8		" in hold Baltic do. ...			
BILGE Angle Irons ...	6 4 9		6 4 9		6 4 9		6 4 9		Main piece of Rudder, diameter at head ...			
do. Bulb Iron ...	9 9		9 9		9 9		9 9		do. at heel ...			
do. Intercoastal plates riveted to plating for length ...	9 9		9 9		9 9		9 9		Can the Rudder be unshipped afloat? ...			
BILGE STRINGER Angle Irons ...	6 4 9		6 4 9		6 4 9		6 4 9		Bulkheads No. 6 No. per Rule 4			
Intercoastal plates riveted to plating for length ...	9 9		9 9		9 9		9 9		Thickness of 6/16 x 5/16			
SIDE STRINGER Angle Irons ...	6 4 9		6 4 9		6 4 9		6 4 9		Height up Collision to Spar & others to Spar & main deck.			

The FRAMES extend in one length from *Keel* to *gunwale* Riveted through plates with 1/8 in. Rivets, about 6 3/4 apart.  
The REVERSED ANGLE IRONS on floors and frames extend *near* middle line to *main deck* and to *upper deck* 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 1/4 ins. from centre to centre.  
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 1/16 ins. from centre to centre.  
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.  
Butts of 4 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.  
Edges from Bilge to Main Sheerstrake, worked clencher, double riveted; with rivets 7/8 in. diameter, averaging 3 7/16 ins. from cr. to cr.  
Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 7/8 in. diameter, averaging 3 1/2 ins. from cr. to cr.  
Edges of Main Sheerstrake, double riveted. Upper Sheerstrake, double & single riveted.  
Butts of Main Sheerstrake, treble riveted for 1/2 length amidships. Butts of Upper Spar Sheerstrake, treble riveted 1/2 length amidships.  
Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper Spar Stringer Plate, treble riveted for 1/2 length.  
Breadth of laps of plating in double riveting 5 1/4 Breadth of laps of plating in single riveting *nil*  
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? *throughout* No. of Breasthooks, 6 Crutches, 3  
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Angles and bulbs*  
Manufacturer's name or trade mark, *Dorman Long & Co. Plates: - Consett Iron Co.*  
The above is a correct description.  
Builder's Signature, *Andrew Leslie & Co.* Surveyor's Signature, *James Milburn*  
Surveyor to Lloyd's Register of British and Foreign Shipping.

Form No. 1 for Iron Ships—1000—24/5/81.

Lloyd's Register

\* If Iron Deck, state if whole or part, and if wood deck is laid thereon.

NWCT85-0052



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? *Yes*

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

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? *A few.*

Masts, Bowsprit, Yards, &c., are *Iron* in *Good* condition, and sufficient in size and length. If of Iron or Steel give Scantlings 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 Material and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit *Foremast length extreme 86 feet. Mainmast 78 feet. Diameter of masts at the partners 24 inches. Two plate masts 7 1/2 to 6 1/2 in thickness. Edges jump jointed and single riveted, edge straps 8 1/2 thick. Butts treble riveted throughout. Straps 10 thicker than plates they connect. Longitudinal Angle runs two in each mast 3 x 3 7/16. Makers of Iron in masts Consett Iron Comp.*

NUMBER for EQUIPMENT 28588

N <sup>o</sup> .	SAILS,	CABLES, &c.	Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Made & Supplied.	ANCHORS.	N <sup>o</sup> .	Weight. Ex. Stock.	Test per Certificate.	Weight req'd per Rule.	Machine where Tested & Supplied.
	Chain	.....	270	1 7/8	63 1/2	970 - 1 1/4		Bower Anchors	1	34.2.0	32.0.0.0	34.0.0	
	Fore Sails,	Iron Stream Chain	75	1 1/8	223 1/2	75 - 1 1/4		(State Machine where Tested, Date, or No. of Certificate, & Name of Superintendent.)	1	34.2.0	32.0.0.0	34.0.0	
	Fore Top Sails,	or Steel Wire ..	100	1 1/2	34 1/8	100 - 1			1	29.2.0	28.5.0.0	29.0.0	
	Fore Topmast Stay Sails,	or Hempen Stream Cable .....	90	9 1/2	Rule.	90 - 9 1/2							
	Main Sails,	Towline, Hemp	90	8		90 - 8		Stream Anchor	1	11.1.0	13.2.2.0	10.3.0	
	Main Top Sails,	or Steel Wire ..	180	6				Kedge	1	5.2.6	7.18.1.21	5.2.0	
	Standing and Running Rigging	Hawser .....	180	4 1/2				2nd Kedge	1	2.1.24	5.0.0.0	2.2.0	
		Warp .....											

and Rigging Wire quality *Good* sufficient in size and *Good* in quality. She has *2 Life* Long Boats and *4 others*

The Windlass is *Good* Capstan and Rudder *Good* Pumps *Good*

Engine Room Skylights. How constructed? *Iron trunk 6' 8" above deck & wood top* How secured in ordinary weather? *Bolted down*

What arrangements for deadlights in bad weather? *Solid shutters and bulls eyes.*

Coal Bunker Openings. How constructed? *Iron Comings* How are lids secured? *Hatch bars* Height above deck? *12 1/2"*

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? *Seven ports each side besides mooring pipes*

Cargo Hatchways. How formed? *Iron Comings and headledges riveted together.*

State size Main Hatch *20 ft. x 12 ft* Forehatch *16 ft. x 12 ft.* Quarterhatch *12 ft. x 12 ft. & 16 ft. x 12 ft.*

If of extraordinary size, state how framed and secured? *Ordinary size*

What arrangement for shifting beams? *Deep web plate fitted in fore, main, & large after hatchways, & two wood fore & afters in each hatchway*

Hatches, If strong and efficient? *Yes (Solid hatches)*

Order for Special Survey No. <i>14024</i>	1st. On the several parts of the frame, when in place, and before the plating was wrought	1882 Sept 27 Oct 2.5.9.17.23.25.26. Nov. 1.
Date <i>4<sup>th</sup> Oct 1882</i>	2nd. On the plating during the process of riveting	11.14.20.22.24. Dec. 16.13.16.20.28.
Order for Ordinary Survey No. <i>1</i>	3rd. When the beams were in and fastened, and before the decks were laid...	1883 Jan. 3.8.10.11.15.20.30. Feb. 6.10.15.19.22
Date <i>✓</i>	4th. When the ship was complete, and before the plating was finally coated or cemented...	March 1.5.9.14.30 April 3.9
No. <i>239</i> in builder's yard.	5th. After the ship was launched and equipped	

General Remarks (State quality of workmanship, &c.) *This vessel has been constructed in accordance with the rules and approved tracing of midships section; The general arrangements being similar to those set forth on the Profile drawing attached to our report - W. 16370 "Penstanton". The whole of the Butts of the shell plating for above one-half the vessel's length amidships, are treble plating. The Ballast tanks in the Bottom & also the peaks have been tested to a head of water not less than the height of the load line & proved very satisfactory. The workmanship and materials being of a good description throughout*

State if one, two, or three decked vessel, or if spar, or awning decked; and the lengths of poop, bridge, forecabin, or raised quarter deck. (If double bottom, state particulars on separate form)

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

I am of opinion this Vessel should be Classed *\*100 A.I. (Spar decked)*

The amount of the Entry Fee ... £ 5 : - : - is received by me, *W. B. James* Surveyor to Lloyd's Register of British and Foreign Shipping

Special ... £ 89 : 11 : - 18<sup>th</sup> April 1883

Certificate *fratn* (to be sent as per margin).

(Travelling Expenses, if any, £ - - - ) Friday, 20<sup>th</sup> April 1883.

Committee's Minute

Character assigned

*100 A.I. 1 Iron Deck Speed 3 Iron Masts*