

IRON SHIPS.

Rec 30/1/17

No. 1199 Survey held at Newcastle Date, First Survey 12th April Last Survey 18th December 1872

On the Iron Screw Steamer "Hoyle" Master D. Gillespie

Tonnage under Tonnage Deck	295.77	ONE, OR TWO DECKED, SPAR, OR AWNING DECKED VESSELS	THREE DECKED VESSELS	Built at	Newcastle
Ditto of Third Spar, or Awning Deck		Half moulded breadth	Half Moulded Breadth	When built	1872
Ditto of Poop, or Raised Qr. Dk.	12.68	Depth from upper part of Keel to top of Upper Deck Beams	Total Depth if three or more Decks	Launched	29 th October
Ditto of Houses on Deck	11.18	Girth of Half Midship Frame (as per Rule)	Total Girth of Half Midship Frame	By whom built	Cole Brothers
Ditto of Forecastle		1st Number	3rd Number	Owners	Michael Mc. Chrystal
Gross Tonnage	319.63	Length	Length	Port belonging to	Londonderry
Clear Space, as per Rule	18.33	2nd Number	4th Number	Destined Voyage	Ireland
Register Tonnage, as a Steamer, etc. on Beam	199.02	Depths to Length.	Breadths to Length	If Surveyed while Building, Afloat, or in Dry Dock.	While building

Length on deck as per Rule, Feet. Inches.	159 0	Moulded Breadth, Feet. Inches.	20 10	Depths from top of Floors to Upper and Main Deck Beams, as per Rule	6	Power of Engines, Horse.	56	N ^o . of Decks with flat laid	one	N ^o . of Tiers of Beams	one
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Dimensions of Ship per Register, length, 160 breadth 21 depth 12.1

	Inches in Ship.	Inches required per Rule.		Inches in Ship.	Inches required per Rule.
Keel, if bar iron, depth and thickness	7 x 1 1/2	7 x 1 1/2	Plates in Garboard Strakes, breadth and thickness	30	7
Do. if centre through plate, depth and thickness	7 x 1 1/2	6 1/2 x 1 1/2	Do. from Garboard to upper part of Bilges	6	6
Stem, if bar iron, moulding and thickness	6 1/2 x 3 1/4	6 1/2 x 3 1/4	Do. of doubling at Bilge, or increased thickness, and length applied	1/2 length	7
Stern-post for Rudder do. do.	6 1/2 x 3 1/4	6 1/2 x 3 1/4	Do. fm up. part of Bilge to lr. edge of Sh'rstrake	5	5
Stern-post for Propeller	21	21	Do. Main Sheerstrake, breadth and thickness	32 1/2	9
Distance of Frames from moulding edge to moulding edge, all fore and aft	21	21	Do. of d'bling at Sh'rstrake, & length applied		
Frames, size of Angle Iron, for 1/2 length amidships	3 2 1/2	3 2 1/2	Do. from Mn. to Upr. or Spar Dk. Sh'rstrake		
Do. for 1/4 at each end	3 2 1/2	3 2 1/2	Do. Up. or Spar Dk Sh'rstrake, brdth & thickness		
Reversed Frames, size of Angle Iron	2 1/2	2 1/2	Butt Straps to outside plating, breadth & thickness	5 to 9 1/2	5 to 10 1/2
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	12	12	Lengths of Plating	10 ft 6 in.	8 feet 9 in.
Do. at the ends	5	5	Shifts of Plating, and Stringers	3 ft 8 in.	3 - 6 in.
Do. do. do. at Bilge Keelson	2 1/2	2 1/2	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness	32 1/2	6
Do. height extended at the Bilges	2 1/2	2 1/2	Angle Iron on ditto	3 x 3	6
Beams, Upper, Spar, or Awning Deck (No. 15) single or double Angle Iron, Plate or Tee Bulb Iron	6 3	5 x 5	Tie Plates (fore and aft), outside Hatchways	7	6
Single or double Angle Iron on Upper edge	4 2	4 2	Diagonal Tie Plates on Beams (No. of Pairs,)		
Average space			Planksheer material and scantling		
Beams, Main or Middle Deck (No.) single, or double Angle Iron, Plate or Tee Bulb Iron			Waterways do. do.	Iron Cutter	
Single or double Angle Iron, on Upper Edge			Flat of Upper Deck do. do.	3 1/2	3
Average space			How fastened to Beams	with screw bolts	
Beams, Lower Deck, Hold or Orlop (No.) single or double Ang. Iron, Plate or Tee Bulb Iron			Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness		
Single or double Angle Iron on Upper Edge			(Is the Stringer Plate attached to the outside plating?)		
Average space			Angle Irons on ditto (No.)		
Keelson Centre line, single or double plate, box, or Intercostal, size of Plates	17 x 5	15 x 5	Tie Plates, outside Hatchways		
Do. Bulb Plate to Intercostal Keelson			Diagonal Tie Plates on Beams (No. of pairs,)		
Do. Size of Angle Irons	5 3 1/2	5 3 1/2	Waterways materials and scantlings		
Do. Side Intercostal Keelson, size of Plates			Flat of Middle Deck do. do.		
Do. Angle Irons on tops of Floors			How fastened to Beams		
Do. Bilge Keelson, Bulb Iron			Stringer Plates on ends of Lower Deck, Hold or Orlop Beams		
Do. do. Intercostal plates riveted to plating for length			(Is the Stringer Plate attached to the outside plating?)		
Do. do. Angle Irons	5 3 1/2	5 3 1/2	Angle Irons on ditto (No.)		
Side Stringers (No. one) size of Angle Irons	3 3	3 3	Stringer or Tie Plates, outside Hatchways		
Do. Intercostal plates riveted to plating for Bulb Plate, length. 96 feet	6 x 6	6 x 6	Flat of Lower Deck		
Transoms, material <u>Iron</u> or, if none, in what manner compensated for.			Ceiling betwixt Decks, thickness and material	2 1/4	3
Knight-heads <u>Iron</u> Hawse Timbers <u>Iron</u>			Do. in hold do. B. Pudo.		
Windlass <u>Harfield's Pull Bitt Patent.</u>			Main piece of Rudder, diameter at head	3 1/2	3 1/4
The Frames extend in one length from <u>Keel</u> to <u>Cumwale</u> Riveted through plates with (5/8 in.) Rivets, about 5 in. apart.			Do. do. at heel	2 1/4	2 1/4
The Reverse Angle Irons on the floors and frames extend <u>across</u> the middle line <u>to upper turn</u> of bilges on <u>and to every frame</u> alternately			(Can the Rudder be unshipped afloat? <u>Yes</u>)		
Keelsons. Are the various lengths of Plates and Angle Irons properly connected? <u>Yes</u> And are their butts properly shifted? <u>Yes</u>			Bulkheads No. <u>5</u> Thickness of <u>4</u>		
Plates, Garboard, double <u>or</u> Riveted to Keel, double <u>or</u> at upper edge, with Rivets (1 1/2 in.) diameter, averaging (2 1/2 ins.) from centre to centre.			Do. Height up <u>4</u> to upper deck <u>after one</u> to cabin sole		
Do. Edges from Garboards to upper part of Bilge, worked Clencher, double <u>or</u> single Riveted; with Rivets (5/8 in.) diameter, averaging (2 1/2 ins.) from centre to centre.			Do. How secured to the sides of the ship <u>by double frames & brackets</u>		
Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (5/8 in.) thick, double <u>or</u> single Riveted; with Rivets (5/8 in.) diameter averaging (2 1/2 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? <u>no</u>			Do. Size of Vertical Angle Irons <u>2 1/2 x 2 1/2</u> and their distance apart, <u>30</u>		
Do. of <u>one</u> Strake at Bilge for <u>half</u> length, <u>treble</u> riveted with Butt Straps <u>1/6</u> thicker than their plates.			Do. Are the outside Plates doubled two spaces of Frames in length? <u>Yes</u>		
Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece () thick, <u>or</u> clencher, double <u>or</u> single riveted; with rivets (5/8 in.) diameter, averaging (2 1/4 ins.) from centre to centre.					
Do. Edges of Sheerstrake, Main, double <u>or</u> single Riveted. <u>Upper, double or single Riveted.</u> At upper edge <u>single</u> At lower edge <u>double</u>					
Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (5/16) thick, double <u>or</u> single Riveted; with Rivets (5/8 in.) diameter, averaging (2 1/4 ins.) from centre to centre.					
Do. Butts of Main Sheerstrake, double <u>or</u> treble Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double <u>or</u> treble Riveted <u>straps 1/6 thicker</u> for <u>half</u> length amidships. Breadth of laps of plating in double Riveting (1 1/2) Breadth of laps of plating in single Riveting (2 1/2)					
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? <u>Double riveted</u>					
Planksheer, how secured to the plating of the sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.)					
Beams of the various Decks, how secured to the sides? <u>Knee plates riveted to frames</u> No. of Breasthooks, <u>four</u> Crutches, <u>three</u>					
What description of Iron is used for the Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? <u>Angles Stockton</u>					
Manufacturer's name or trade mark, <u>Malleable Iron Co. Plates Bolckow Vaughan & Co</u>					

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

Builder's Signature, Cole Bros Surveyor's Signature, J. H. Cooke

Mr. J. J. Bone

IRON 453-0009

Lloyd's Register Foundation

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
 Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Solid single pieces
 Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? fairly so and are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? yes
 Are there any rivets which either break into or have been put through the seams or butts of the plating? a few

Her Masts, Bowsprit, Yards, &c. are in Wood 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 riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit ✓

No.	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight. Ex. Stock.	Test as per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
	Fore Sails,	Chain	180	1 7/16	20.6.0 ✓	1 7/16 ✓	20 6/20 ✓	Bowers	1	8.2.19	10.16.1.0	2.1.0	10 7/20
	Fore Top Sails,	(State Machine where Tested, and name of Superintendent.)							1	8.1.10	10.10.0.0		
	Fore Topmast Stay Sails	Hempen Stream Cable	60	7/16					1	7.0.0	9.5.0.0	7.0.2	9 5/20
	Main Sails,	Hawser	90	4		4 1/2 ✓		Stream	1	3.1.12		3.0.0 ✓	
	Main Top Sails,	Towlines ...	90	5 1/2		6 ✓		Kedges	1	1.2.1		1.2.0 ✓	
	and Rigging Wire	Warp	90	4 1/2									
	Her Standing and Running Rigging	All of good quality.	180	3 1/2									

The present state of the Windlass is Good. Capstan ✓ and Rudder Good. Pumps Good. She has one Life Boat and one other boat.

Engine Room Skylights.—How constructed? Iron Comings Wood Tops How secured in ordinary weather? Bolted to angle iron
 What arrangements are there for deadlights in such for bad weather? Solid shutters and Bull eyes.

Coal Bunker Openings.—How constructed? Cast Iron pipes How are lids secured? by studs How high above deck? 5 inches.

Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board?
Four ports each side besides mooring ports.

Cargo Hatchways.—How formed? Iron Comings State size 14 ft x 7 feet main Hatch. after Hatch.

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

What arrangement for shifting beams? One shifting beam & one fore & after to each hatchway

Hatches, themselves, whether strong and efficient? Yes. **Main Hatchways.**—State size 14 feet x 7 feet

Order for Special Survey No. 895 DATES of 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 riveting
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 or cemented
5th. After the ship was launched and equipped

General Remarks, This is a one decked vessel, built in accordance with section attached. She has a raised Quarter deck 22 feet in length, Bridge house 17 ft 6 in in length, and water ballast tank amidships 32 feet in length, tank top plating 5/16 thick. For a distance of 32 feet amidships, also 16 feet from stem & each extending from side to side, she has an iron deck 5/16 thick, butt straps double riveted, edge straps single riveted, with wood deck over the same.

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

In what manner are the surfaces preserved from oxidation? Inside Cement & Paint Outside Paint

I am of opinion this vessel should be Classed 90 A1.

The amount of the Entry Fee £ 4:0:0 is received by me,
 on 30 tons Special 15:1:0
 Certificate

(Travelling Expenses) (if any) £ —

Committee's Minute 31st Decr 1872

Character assigned 90 A1

J. H. Cooke.
 This vessel appears to be eligible for the class recommended by
 90 A1.
 Lloyd's Register Foundation

Main Hatch, after Hatch, Rudder, Pumps, Life Boat, other boat

Age 3
M 6