

# IRON SHIPS.

No. 4118 Survey held at Hull Date, First Survey 18<sup>th</sup> May 1871 Last Survey 16 April 1872

On the Screw Steamer "Conroy" Master Snow

Tonnage under Tonnage Deck } 1058.82  
 Ditto of Third Spar, or Awning Deck. }  
 Ditto of Poop, or Raised Or. Dk. } 258.78  
 Ditto of Hoys (Deck & Mast) } 2.54  
 Ditto of Mast } 29.90  
 Gross Tonnage } 1350.04  
 Crew Space, as per Rule } 31.58  
 Register Tonnage, as on Beam... }  
 Engine Room } 287.09  
 Register Tonnage, as a } 1031.34  
 (Engine, cut on Beam)

ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.  
 Half moulded breadth... 15.11  
 Depth from upper part of Keel to top of Upper Deck Beams... 20.2  
 Girth of Half Midship Frame (as per Rule)... 32.40  
 1st Number... 5810  
 Length... 203.1  
 2nd Number... 16530.8  
 Depths to Length... 13

THREE DECKED VESSELS.  
 Half Moulded Breadth...  
 Total Depth if three or more Decks...  
 Total Girth of Half Midship Frame...  
 3rd Number...  
 Length...  
 4th Number...  
 Breadths to Length under 8

Built at Hull  
 When built 1872 Launched 13<sup>th</sup> Jan 7  
 By whom built Wm. & Co. Shipbuilders  
 Owners See 4<sup>th</sup>  
 Port belonging to Hull  
 Destined Voyage Cape of Good Hope  
 If Surveyed while Building, Afloat, or in Dry Dock. Special Survey

Length on deck as per Rule 243 Feet. 2 Inches. Moulded Breadth 31 Feet. 10 Inches. Depths from top of Floors to Upper and Main Deck Beams, as per Rule... 18 Feet. 6 Inches. Horse. 150 N<sup>o</sup>. of Decks with flat laid 2 N<sup>o</sup>. of Tiers of Beams 2

Dimensions of Ship per Register, length 253.8 breadth 31.95 depth 18.0 compared with Rules 1870

	Inches in Ship.	Inches required per Rule.		Inches in Ship.	Inches required per Rule.
Keel, if bar iron, depth and thickness	9 x 2 1/2	9 x 2 1/2	Flat Keel Plates, breadth and thickness	36	30
Do. if centre through plate, depth and thickness	9 x 2 1/2	8 x 2 1/2	Plates in Garboard Strakes, breadth and thickness	36	30
Stem, if bar iron, moulding and thickness	10 x 4	8 x 5	Do. from Garboard to upper part of Bilges	36	30
Stern-post for Rudder do. do.	10 x 4	8 x 5	Do. of doubling at Bilge, or increased thickness, and length applied	36	30
Stern-post for Propeller	10 x 4	8 x 5	Do. fm up. part of Bilge to lr. edge of Sh'rstrake	36	30
Distance of Frames from moulding edge to moulding edge, all fore and aft	23	23	Do. Main Sheerstrake, breadth and thickness	36	30
Frames, size of Angle Iron, for 1/2 length amidships	4 1/2 x 3	4 1/2 x 3	Do. of d'bling at Sh'rstrake, & length applied	36	30
Do. for 1/4 at each end	4 1/2 x 3	4 1/2 x 3	Do. from Mn. to Upr. or Spar Dk. Sh'rstrake	36	30
Reversed Frames, size of Angle Iron	3 x 3	3 x 3	Do. Up. or Spar Dk Sh'rstrake, brdth & thickness	36	30
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	20 x 9/16	20 x 9/16	Butt Straps to outside plating, breadth & thickness	4 1/2 x 3	4 1/2 x 3
Do. at the ends	9" x 9/16"	9" x 9/16"	Lengths of Plating	11' 9"	11' 9"
Do. do. do. at Bilge Keelson	9" x 9/16"	9" x 9/16"	Shifts of Plating, and Stringers	5' 9"	5' 9"
Do. height extended at the Bilges	3' 6"	3' 4"	Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness		
Beams, Upper, Spar, or Awning Deck (No. ) single or double Angle Iron, Plate or Tee Bulb Iron	7 1/4 x 9/16	7 1/2 x 7/16	Angle Iron on ditto		
Single or double Angle Iron on Upper edge	3 x 3	3 x 2 1/2	Tie Plates (fore and aft), outside Hatchways		
Average space	46	46	Diagonal Tie Plates on Beams (No. of Pairs, )		
Beams, Main or Middle Deck (No. ) single or double Angle Iron, Plate or Tee Bulb Iron	7 1/4 x 9/16	7 1/2 x 7/16	Planksheer material and scantling		
Single or double Angle Iron, on Upper Edge	3 x 3	3 x 2 1/2	Waterways do. do.		
Average space	46	46	Flat of Upper Deck do. do.		
Beams, Lower Deck, Hold or Orlop (No. ) single or double Angle Iron, Plate or Tee Bulb Iron	7 1/4 x 9/16	7 1/2 x 7/16	How fastened to Beams		
Single or double Angle Iron on Upper Edge	3 x 3	3 x 2 1/2	Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness	45	48
Average space	46	46	(Is the Stringer Plate attached to the outside plating?)	Yes	
Keelson Centre line, single or double plate, or Intercostal, size of Plates	19 x 9/16	2 1/2 x 9/16	Angle Irons on ditto (No. one )	5 x 3 1/2 x 9/16	5 x 3 1/2 x 9/16
Do. Bulb Plate to Intercostal Keelson	10 x 4	7 1/2 x 7/16	Tie Plates, outside Hatchways	16 x 9/16 x 9/16	16 x 9/16 x 9/16
Do. Size of Angle Irons	5 x 3 1/2	5 x 3 1/2	Diagonal Tie Plates on Beams (No. of pairs, )		
Do. Side Intercostal Keelson, size of Plates	18 x 9/16	9/16 x 7/16	Waterways materials and scantlings		
Do. Angle Irons on tops of Floors	5 x 3 1/2	5 x 3 1/2	Flat of Lower Deck do. do.		
Do. Bilge Keelson, Bulb Iron	8 x 9/16	7 1/2 x 7/16	How fastened to Beams		
do. do. Intercostal plates riveted to plating for length			Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	30	30
Angle Irons	5 x 3 1/2	5 x 3 1/2	(Is the Stringer Plate attached to the outside plating?)	Yes	
(No. ) size of Angle Irons riveted to plating for length			Angle Irons on ditto (No. 2 )	4 x 4 x 9/16	4 x 4 x 9/16

How or, if none, in what manner compensated for. None  
 Hawse Timbers None  
 Patent Pall Bitt None  
 length from Keel to Gunwale Riveted through plates with (1/4 in.) Rivets, about 4" apart.  
 on the floors and frames extend across the middle line from bilge to bilge and to top of Main Deck alternately  
 lengths of Plates and Angle Irons properly connected? Yes And are their butts properly shifted? Yes  
 Riveted to Keel, double vertical at upper edge, with Rivets (1/8 x 3/4 in.) diameter, averaging (5 1/2 ins.) from centre to centre.  
 to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.  
 of Bilge, worked carvel with butt straps to strakes (9/16 x 9/16) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? Set in outer strake  
 for 1/2 length, treble riveted with Butt Straps 1/16 thicker than their plates.  
 Sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.  
 double or single Riveted. Upper, double or single Riveted. At upper edge vertical to upper edge At lower edge double riveted  
 Sheerstrake, worked Carvel with Butt Straps (9/16 x 9/16) thick, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3 1/2 ins.) from centre to centre.  
 double or treble Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted  
 Breadth of laps of plating in double Riveting ( 5" ) Breadth of laps of plating in single Riveting ( ) as both riveted  
 Plates, treble, double or single Riveted? Angled shifted & stripped Butts of Stringer & Plate double  
 sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.) Set in outer strake  
 sides? Main Deck Beams riveted to gun No. of Breasthooks, None Crutches, None  
 Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Structure Malleable &c.  
C. & Cooke & Swinerton Sheffield  
 of the several particulars therein given.  
 Surveyor's Signature, Wm. Snow

Lloyd's Register  
 LONDON  
 1871-50-0512

**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? Yes or are they in short lengths of various thicknesses? No  
 Do the holes for riveting plate to frames, butt scraps, or plate to plate, &c., conform well to each other? Yes 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 in the Butts at edge riveting

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 riveting, quality of Materials, and if stamped with Maker's name.  
 State also Length and Diameter of Lower Masts and Bowsprit Pitch Pine

10036 Irons

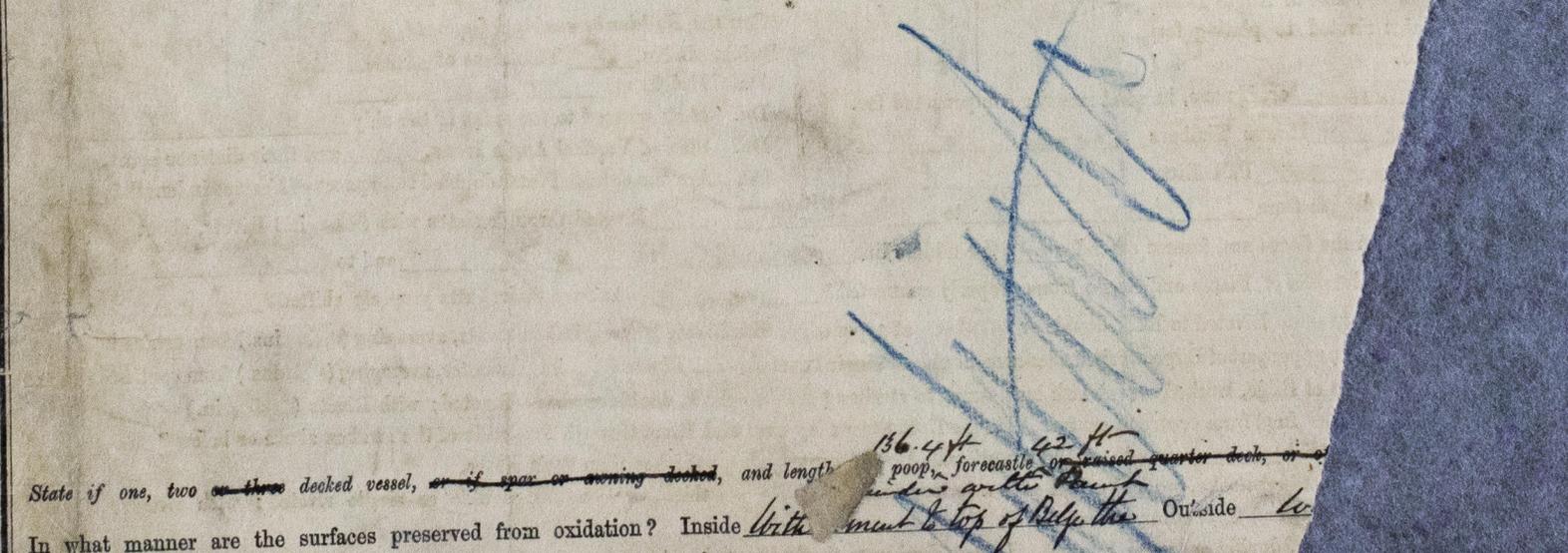
No.	Number for equipment	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	N <sup>o</sup> .	Weight. Ex. Stock.	Test as per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
	18183											
	SAILS.											
	CABLES &c.											
	Chain	300	1 1/16	44 tons	17 1/16	43 20 tons	Bowers	3	23.5.14 23.3.6 20.0.6	23.15.2.14 23.14.2.21 20.17.0.21	23.2.0 23.2.0 19.3.25	23 20 23 20 20 20
	Fore Sails,						(State Machine where Tested, and name of Superintendent)					
	Fore Top Sails,											
	Fore Topmast Stay Sails											
	Main Sails,											
	Main Top Sails,											
	Warp	100	5 1/2									
	All of good quality.											
	Stream Cable	90	1 short link									
	Hawser	90	9 1/2									
	Towlines	180	10									
	Stream Cable	100	5 1/2									
	Warp	100	5 1/2									
	All of good quality.											
	Stream Cable	90	1 short link									
	Hawser	90	9 1/2									
	Towlines	180	10									
	Warp	100	5 1/2									
	All of good quality.											
	Stream Cable	90	1 short link									
	Hawser	90	9 1/2									
	Towlines	180	10									
	Warp	100	5 1/2									
	All of good quality.											

Her Standing and Running Rigging Good sufficient in size and good in quality. She has Medley Long Boat and four others  
 The present state of the Windlass is good Capstan good and Rudder good Pumps Copper  
 Engine Room Skylights.—How constructed? Wood & Glass How secured in ordinary weather? Brass rods  
 What arrangements are there for deadlights in such for bad weather? Tarpauling put up fitted 8 ft above main deck  
 Coal Bunker Openings.—How constructed? Iron How are lids secured? With saw bolts How high above deck? 3' above fore peak  
 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?  
Lock and Gangway

Cargo Hatchways.—How formed? Iron State size 17 ft - 4 + 9 feet  
 If of extraordinary size, state how framed and secured? Shifting Beams fitted  
 What arrangement for shifting beams? Iron Collars fitted to side of Hatchway Beams secured with bolts  
 Hatches, themselves, whether strong and efficient? good Main Hatchways.—State size 23 ft + 9 ft

Order for Special Survey No. 118 DATES of  
 Date 2<sup>nd</sup> June 1871 Surveys held  
 Order for Ordinary Survey No. \_\_\_\_\_ while building  
 Date \_\_\_\_\_ as per  
 No. \_\_\_\_\_ in builder's yard. Section 18.  
 1st. On the several parts of the frame, when in place, and before the plating was wrought First Survey  
 2nd. On the plating during the progress of riveting 18<sup>th</sup> May 1871  
 3rd. When the beams were in and fastened, and before the decks were laid Last Survey  
 4th. When the ship was complete, and before the plating was finally coated or cemented 16<sup>th</sup> April 1872  
 5th. After the ship was launched and equipped

**General Remarks,**  
Is finished with long poop & deep forecassle All frames extending to the top height and Beams fitted on all main frames 5 x 3 1/2 x 7/16 Plating 5/16 double riveted at the Butts and Single riveted at the edges



State if one, two or three decked vessel, or if spar or awning decked, and length 136.4 ft 42 ft  
 In what manner are the surfaces preserved from oxidation? Inside With paint Outside With paint  
 I am of opinion this Vessel should be Classed 90 A  
 The amount of the Entry Fee .....£ 5: - : - is received by me,  
 Special .....£ 57: 19: -  
 Certificate ..... : :  
 (Travelling Expenses)  
 (if any) £ \_\_\_\_\_  
 Committee's Minute 30<sup>th</sup> April 1872  
 Character assigned 90  
 M. Davidson  
 1872