

# 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 Snaw

Tonnage under Tonnage Deck	1058.82	ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.	THREE DECKED VESSELS.	Built at <u>Hull</u>
Ditto of Third Spar, or Awning Deck.		Half moulded breadth .... 15.11	Half Moulded Breadth....	When built <u>1872</u> Launched <u>13<sup>th</sup> Jan 7</u>
Ditto of Poop, or Raised Qr. Dk.	258.98	Depth from upper part of Keel to top of Upper Deck Beams .... 20.2	Total Depth if three or more Decks .....	By whom built <u>James &amp; Co</u>
Ditto of Hovsech Deck & Mast	2.54	Girth of Half Midship Frame (as per Rule) ... 32.40	Total Girth of Half Midship Frame .....	Owners <u>See 4<sup>th</sup></u>
Forecastle	29.90	1st Number ..... 58.0	3rd Number .....	Port belonging to <u>Hull</u>
G. Tonnage	1350.04	Length ..... 203.1	Length .....	Destined Voyage <u>Cape of Good Hope</u>
Crew Space, as per Rule	31.58	2nd Number .... 16530.8	4th Number ....	If Surveyed while Building, Afloat, or in Dry Dock.
Register Tonnage, out on Beam...		Depths to Length. 13	Breadths to Length under 8	<u>Special Survey</u>
Engine Room	287.09			
Register Tonnage, as a ...	1031.34			

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 One N<sup>o</sup>. of Tiers of Beams Two

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	(Class 23 90 A)	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 1/2 at each end	4 1/2 x 3	4 1/2 x 3	Do. from Mn. to Up. 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	1 1/2 x 1 1/2	1 1/2 x 1 1/2
Do. at the ends	9" x 9/16	9" x 9/16	Lengths of Plating	11' 9"	
Do. do. do. at Bilge Keelson	9" x 9/16	9" x 9/16	Shifts of Plating, and Stringers	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. 67 ) 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. 11 ) 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	20 feet	3 x 2 1/2	(Is the Stringer Plate attached to the outside plating?)	Yes	
Keelson Centre line, single or double plate, box, or Intercoastal, 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 Intercoastal Keelson	10 x 9/16	7 1/2 x 7/16	Tie Plates, outside Hatchways	16 x 9/16	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 Intercoastal 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. Intercoastal 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	
( ) size of Angle Irons	5 x 3 1/2	5 x 3 1/2	Angle Irons on ditto (No. 3 )	4 x 3 1/2 x 9/16	4 x 3 1/2 x 9/16
ates riveted to plating for			Stringer or Tie Plates, outside Hatchways	5 x 3 1/2 x 9/16	5 x 3 1/2 x 9/16
			Flat of Lower Deck		
			Ceiling betwixt Decks, thickness and material	3/4 battens	
			Do. in hold do. do.	do. do. do. do.	
			Main piece of Rudder, diameter at head	5 3/4	5 3/4
			Do. do. at heel	3	3
			(Can the Rudder be unshipped afloat?)	Yes	
			Bulkheads No. 5 Thickness of Plates	6/16	6/16
			Do. Height up	Deck	
			Do. How secured to the sides of the ship	Double frames & Breast Lines	
			Do. Size of Vertical Angle Irons, 3 x 3 x 9/16 and their distance apart, 30"		
			Do. Are the outside Plates doubled two spaces of Frames in length?	Yes	

How or, if none, in what manner compensated for.

Hawse Timbers How

Patent Pall Bitt

length from Keel to Gunwale

the floors and frames extend across the middle line from Bilge to Bilge and to top of Main Deck

lengths of Plates and Angle Irons properly connected? Yes And are their butts properly shifted? Yes

Riveted to Keel, double or single at upper edge, with Rivets (1/8 x 3/4 in.) diameter, averaging (5/8 ins.) from centre to centre.

to upper part of Bilge, worked Clencher, double or single Riveted; with Rivets (3/4 in.) diameter, averaging (3/2 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 (3/2 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? Set in onto strakes

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 (3/2 ins.) from centre to centre.

double or single Riveted. Upper, double or single Riveted. At upper edge double Riveted. 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 (3/2 ins.) from centre to centre.

double or single Riveted. Butts of Upper or Spar Sheerstrake, and Upper Deck Stringer Plate, double or single Riveted.

Breadth of laps of plating in double Riveting ( 5" ) Breadth of laps of plating in single Riveting ( ) and both butts

Plates, treble, double or single Riveted? Angled shifted & stripped Butts of Stringer & Upper Plate double

Sides. Waterway, how secured to the planksheer and to the Beams. (Explain by Sketch, if necessary.) Double frames & Breast Lines

of Main Deck Beams & Bilge Keelsons riveted to gun No. of Breasthooks, How Crutches, How

ns, 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. Davidson

Lloyd's Register

IRON 450-0512



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

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.	Weight req'd per Rule.	Test req'd per Rule.
SAILS.												
CABLES &c.												
Chain		300	1 1/16	44 tons	1 1/16	43 20 tons	Bowers	3	23.5.14	23.15.2.14	23.2.0	23 20
Fore Sails,							(State Machine where Tested, and name of Superintendent)					
Fore Top Sails,												
Fore Topmast Stay Sails												
Main Sails,												
Main Top Sails,												
and other rigging												
Hawser		90	1 short link				Stream	1	10.0.0		10.0.0	
Towlines		90	9 1/2									
Warp		100	10				Kedges	2	5.0.3		5.0.3	
All of good quality.		100	5 1/2									

Her Standing and Running Rigging Good sufficient in size and good in quality. She has One Life 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? Parpaning put in fitted 4 ft above main deck

Coal Bunker Openings.—How constructed? Iron How are lids secured? With saw bolts How high above deck? 8 ft above main deck

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 x 9 ft

If of extraordinary size, state how framed and secured? Shifting Beams fitted

What arrangement for shifting beams? Don Collars fitted to side of Hatchway Beams secured with bolts

Hatches, themselves, whether strong and efficient? good Main Hatchways.—State size 23 ft x 9 ft

Order for Special Survey No. 118 DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought First Survey

Date 2<sup>nd</sup> June 1871 Surveys held 2nd. On the plating during the progress of riveting 18<sup>th</sup> May 1871

Order for Ordinary Survey No. while building 3rd. When the beams were in and fastened, and before the decks were laid Last Survey

Date as per 4th. When the ship was complete, and before the plating was finally coated or cemented 16<sup>th</sup> April 1872

No. in builder's yard. Section 18. 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 running decked, and length 136.4 ft 42 ft poop, forecassle or raised quarter deck, or under the main

In what manner are the surfaces preserved from oxidation? Inside With min to top of Bulk the Outside 6

I am of opinion this Vessel should be Classed GO A 1

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

Special .....£ 5: 19: -  
Certificate .... : :

(Travelling Expenses)  
(if any) £

Committee's Minute 30<sup>th</sup> April 1872

Character assigned GO

Mr Davidson



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