

IRON SHIPS.

Request for S.S. No. 288
 No. 3169 Survey held at Dumbarton Date April 27 Rec 2/5/66
 on the Ship "Hammill Mitchell" Master Wm Branscombe 18 1866
 Tonnage Gross — Engine Room — Register 95P. 02 Built at Dumbarton
 When Built 1864 Launched 23 April 1864 By whom built Jess & Ranvie
 Owners J. Mitchell Port belonging to Glasgow Destined Voyage Glasgow to China
 If Surveyed Afloat or in Dry Dock whilst building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.
Length aloft	102	2	Extreme Breadth	33	3	Depth from top of Upper Deck Beam to top of Floor	20	0	Power of Engines	
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	10		Inches in Ship.	21		Inches required per Rule.			Stem, if bar iron, moulding and thickness	3
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	4	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" if plate iron, breadth and thickness	3
" depth and thickness of Floor Plate at mid line	21	10	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Stern-post, if bar iron, moulding and thickness	3
" depth and thickness of Floor Plate at Bilge Keelson	10	10	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" if plate iron, breadth and thickness	3
" Size of Reversed Angle Iron, and No. at top of Floor Plate	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Keel, if bar iron, depth and thickness	3
Frames, Size of Angle Iron, single or double Reversed Iron, to every frame	4	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" if plate iron, breadth and thickness	3
" to every other frame	4	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Garboard Plates, Breadth and thickness	3
Beams, Deck (No. 55) double Angle Iron, Plate, or Bulb Iron	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			From Garboard to upper part of Bilge	3
" double or single Angle Iron, on upper edge	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			From upper part of Bilge to Sheerstrakes	3
" average space between	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Sheerstrakes, Breadth and thickness	3
" if wood (No.) sided & moulded	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Butt Straps to outside plating, Breadth and thickness	3
" Hold, or Lower Deck (No. 52) double Angle Iron, Plate, or Bulb Iron	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Planksheers	3
" double or single Angle Iron on upper edge	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Gunwale Plate or Stringer on ends of Up. Dk Beams	3
" average space between	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Angle Iron on ditto	3
" if wood (No.) sided & moulded	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Diagonal Tie Plates on Beams	3
" Paddle, wood, sided and moulded, or if Iron, size of Plate	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Waterway	3
" Engine	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Deck	3
Keelson, single plate, box, or intercostal	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Ceiling in Hold	3
" Size of Plates	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Ceiling betwixt Decks	3
" Size of Angle Irons	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Beam Clamps or Spirketting	3
Ditto Bilge (No. 50)	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" Shelf	3
Transoms, material	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" Stringer Plates on ends of Hold or Lower Dk Beams	3
" if none, in what manner compensated for	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Ceiling between Decks	3
Knight-heads, and Hawse Timbers	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Stringer or Tie Plates out- side Hatchways	3
The Frames or Ribs extend in one length from middle line to gunwale	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Deck Beam Clamps or Spirketting	3
The reverse angle irons on the floors extend in one length across the middle line from upper part of Hold Beams to Ditto	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" Shelf	3
" " " on the frames " " " from middle line to Gunwale	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Stringers in Hold	3
Keelson, how are the various lengths of plates or angle irons connected?	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Deck, Lower	3
Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets () diameter averaging () from centre to centre of rivet.	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Deck, Upper, how fastened to Beams	3
" Edges from Garboards to upper part of bilge, worked carvel with a lining piece () thick, double or single rivetted; rivets () diameter, averaging () from centre to centre of rivets.	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Bulkheads, No. Two	3
" Butts from Keel to turn of bilge, worked carvel with a lining piece () thick, double or single rivetted; rivets () diameter, averaging () from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			Thickness of	3
" Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, double or single rivetted; rivets () diameter, averaging () from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" how secured to the sides of the ship	3
" Edge of Sheerstrake, double or single rivetted?	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.			" size of vertical angle iron and their distance apart	3
" Butts from bilge to planksheers, worked carvel with a lining piece () thick, double or single rivetted; rivets () diameter, averaging () from centre to centre of rivets. Breadth of laps in double rivetting () Breadth of laps in single rivetting ()	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
Planksheer, how secured to the plating of the sides	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
Waterway " " planksheer and to the Beams	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
Deck Beams, how secured to the side?	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
Hold or Lower Deck "	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
Paddle "	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
No. of breasthooks	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				
What description of iron is used for the angle iron and plate iron in the vessel?	3	3	Inches in Ship.	16ths required per Rule.	3	16ths required per Rule.				

IRON 437-0231

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three times the diameter of the rivets where single rivetting is admitted? *Yes*

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 varying thicknesses?~~ Yes

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? Yes 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? *a few in corners of Butts*

Her Masts, Yards, &c., are in *Sketch* *as per conditions*, and sufficient in size and length.

She has SAILS.

CABLES. &c.

ANCHORS, and their weights.

N ^o .		Fathoms.	Inches.	N ^o .	Weight.
1	Fore Sails,	300	1 7/8	2	30.12
2	Fore Top Sails,	90	10	3	29.30
3	Fore Topmast Stay Sails,	90	1	4	29.30
4	Main Sails,	90	9	5	10.20
5	Main Top Sails,	90	5 1/2	6	6.00
6	Chain	51 1/2		7	3.30
7	Hempen Stream Cable				
8	Hawser				
9	Towlines				
10	Warp				
11	All of good quality.				

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

She has one 22 feet Long Boat and two of 24 feet and one of 20 feet

The present state of the Windlass is new Capstan new and Rudder new Pumps new and efficient

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

DATES of Surveys held while building, as per Section 17.

- 1st. On the several parts of the frame, when in place, and before the plating was wrought *Built under Special*
- 2nd. On the plating during the progress of rivetting *Survey and seen on the following dates*
- 3rd. When the beams were in and fastened, and before the decks were laid *May 19. 26. June 1. 28. 27. July 22. 22. Aug.*
- 4th. When the ship was complete, and before the plating was finally coated *3. 12. 19. 28. Sept. 7. 12. 21. 28 Oct. 27. 9*
- 5th. After the ship was launched *16. 22. 26. Feb. 5. 10. 23. 30 Dec. 9. 14. 1863 Jan. 13. 20. Feb. 3. 17. 24. March 3. 10. 15. 24 Apr. 2. 5. 27. 1864*

This vessel is built to the old Rule and Space of 18 lbs.
The Gunwale Plate and Hold Beam Struts are in excess of the
Rule, the Sheustrake is extended 10 lbs above the Gunwale
Plate with Butt Straps to the same in one length; is fitted
with a full Poop and Forecastle and a House on deck for the
Crew and in all other respects as per accompanying Indship
Section

In what manner are the surfaces preserved from oxidation?

2. Flat of Bottom coated with Portland Cement, remainder of Frame and Plating with Red Oak

I am of opinion this Vessel should be classed 12. A. 1

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

and Wm

Special £47.18.5

Certificate (if required) £ *Twenty* ..

Committee's Minute 3rd May 1864

Character assigned A 1 for 12 Years

Bottom coated with Portland
Mortar of Gravel and Plaster
Red Oak

L. Darling

This Sailing Ship of War
appears eligible for Classing
as recommended
May 2/64