

IRON SHIPS.

Rev 20/4/71

No. 11419 Survey held at St Shields Date, First Survey 5th Aug 1870 Last Survey 6th March 1871

On the Screw Steamer "Glenanna" Master Jas Auggit

Tonnage under Tonnage Deck	649.67	ONE, OR TWO DECKED, SPAR, OR AWNING-DECKED VESSELS.	THREE DECKED VESSELS.	Built at	North Shields
Ditto of Third Spar or Awning Deck		Half moulded breadth	Half Moulded Breadth	When built	1871
Ditto of Poop, or Raised Or. Dk	49.60	Depth from upper part of Keel to top of Upper Deck Beams	Total Depth if three or more Decks	Launched	July 7/71
Ditto of Houses on Deck	38.49	Girth of Half Midship Frame (as per Rule)	Total Girth of Half Midship Frame	By whom built	J. & M. Smith
Ditto of Forecastle	7.54	1st Number	3rd Number	Owners	Elliott & Co
Gross Tonnage	745.30	Length	Length	Port belonging to	Newcastle
Crew Space, as per Rule	34.22	2nd Number	4th Number	Destined Voyage	Mediterranean
Register Tonnage, as a Steamer, cut on Beam	553.93	Depths to Length. <u>not measured</u>	Breadths to Length	If Surveyed while Building, Afloat, or in Dry Dock.	While building

Length on deck as per Rule, 207 0 Feet. Inches. Moulded Breadth, 28 2 Feet. Inches. Depths from top of Floors to Upper and Main Deck Beams, as per Rule 16 4 Feet. Inches. Power of Engines, 94 Horse. No. of Decks with flat laid one No. of Tiers of Beams one

Dimensions of Ship per Register, length, 204.4 breadth, 28.2 depth, 14.5

	Inches in Ship.		Inches required per Rule.			Inches in Ship.		Inches required per Rule.	
	In Ship.	In Ship.	Inches.	Inches.		In Ship.	In Ship.	Inches.	Inches.
Keel, if bar iron, depth and thickness	7 1/2	2 1/4	7 1/2	2 1/4	Flat Keel Plates, breadth and thickness	30	9	30	9
Do. if centre through plate, depth and thickness	7	2 1/4	7	2 1/4	Plates in Garboard Strakes, breadth and thickness		8		8
Stem, if bar iron, moulding and thickness	3	9 x 3 1/2	3	9 x 3 1/2	Do. from Garboard to upper part of Bilges		10		10
Stern-post for Rudder do. do.	7 1/2	4 1/2	7 1/2	4 1/2	Do. of doubling at Bilge, or increased thickness, and length applied	1/2 length	1/2 length		
Stern-post for Propeller	22		22		Do. fm up. part of Bilge to Ir. edge of Sh'rstrake	30	7	30	7
Distance of Frames from moulding edge to moulding edge, all fore and aft	3 1/2	3	3 1/2	3	Do. Main Sheerstrake, breadth and thickness		12		12
Frames, size of Angle Iron, for 2/3 length amidships	3 1/2	3	3 1/2	3	Do. of d'bling at Sh'rstrake, & length applied				
Do. for 1/2 at each end	2 1/2	2 1/2	2 1/2	2 1/2	Do. from Mn. to Upr. or Spar Dk. Sh'rstrake				
Reversed Frames, size of Angle Iron	2 1/2	2 1/2	2 1/2	2 1/2	Do. Up or Spar Dk Sh'rstrake, brdth & thickness				
Floors, depth and thickness of Floor Plate at mid line for half the length amidships	18	7	18	7	Butt Straps to outside plating, breadth & thickness				
Do. at the ends	6		6		Lengths of Plating	9.3		9.3	
Do. do. do. at Bilge Keelson					Shifts of Plating, and Stringers	2 frames		2 frames	
Do. height extended at the Bilges					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	3 1/2	3	3 1/2	3	Angle Iron on ditto				
Single or double Angle Iron on Upper edge	7	7	7	7	Tie Plates (fore and aft), outside Hatchways				
Average space	2 1/2	2 1/2	2 1/2	2 1/2	Diagonal Tie Plates on Beams (No. of Pairs,)				
Beams, Main or Middle Deck (No. 43) single, or double Angle Iron, Plate or Tee Bulb Iron	4 1/2	3	4 1/2	3	Planksheer material and scantling				
Single or double Angle Iron, on Upper Edge	4 1/2	3	4 1/2	3	Waterways do. do.	3 1/2		3 1/2	
Average space					Flat of Upper Deck do. do.				
Beams, Lower Deck, Hold or Orlop (None) single or double Angle Iron, Plate or Tee Bulb Iron	4 1/2	3	4 1/2	3	How fastened to Beams				
Single or double Angle Iron on Upper Edge	4 1/2	3	4 1/2	3	Stringer Plate on ends of Main or Middle Deck	52	8	41	10
Average space					Beams, breadth and thickness				
Keelson Centre line, single or double plate, or Intercoastal, size of Plates	36	7	22 1/2	7	(Is the Stringer Plate attached to the outside plating?)	Yes			
Do. Bulb Plate to Intercoastal Keelson	18	7	18	7	Angle Irons on ditto (No. 2)	4 1/2	3 x 7/16	4 1/2	3 x 7/16
Do. Size of Angle Irons	4 1/2	3	4 1/2	3	Tie Plates, outside Hatchways	17	8	17	8
Do. Side Intercoastal Keelson, size of Plates					Diagonal Tie Plates on Beams (No. of pairs,)				
Do. Angle Irons on tops of Floors					Waterways materials and scantlings				
Do. Bilge Keelson, Bulb Iron					Flat of Middle Deck do. do.				
Do. do. Intercoastal plates riveted to plating for length					How fastened to Beams				
Do. do. Angle Irons					Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	31 1/2	7	31	7
Side Stringers (No. one) size of Angle Irons	4 1/2	3	4 1/2	3	(Is the Stringer Plate attached to the outside plating?)	Yes			
Do. Intercoastal plates riveted to plating for length					Angle Irons on ditto (No. 3)	3 1/2	3 x 7/16	3 1/2	3 x 7/16

Transoms, material Iron or, if none, in what manner compensated for. Iron
 Knight-heads Iron Hawse Timbers Iron
 Windlass Compulsent Pall Bitt Iron

The Frames extend in one length from Keel to funnel Riveted through plates with (3/4 in.) Rivets, about 6 apart.
 The Reverse Angle Irons on the floors and frames extend across the middle line from bilge to bilge and to funnel alternately
 Keelsons. Are the various lengths of Plates and Angle Irons properly connected? Yes And are their butts properly shifted? Yes

Plates, Garboard, double or Riveted to Keel, double or at upper edge, with Rivets (1/2 in.) diameter, averaging (4 1/2 ins.) from centre to centre.
 Do. Edges from Garboards to upper part of Bilge, worked Clencher, double or Riveted; with Rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre.
 Do. Butts from Keel to turn of Bilge, worked carvel with butt straps to strakes (2 1/8) thick, double or single Riveted; with Rivets (3/4 in.) diameter averaging (3 ins.) from centre to centre. Do the Butt Straps lay over and Rivet through the lands of the strakes above or below? No
 Do. of 2 Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 2 1/8 thicker than their plates.
 Do. Edges from bilge to Main Sheerstrake, worked carvel with a lining piece () thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre.
 Do. Edges of Sheerstrake, Main, double or single Riveted. Upper, double or single Riveted. At upper edge single At lower edge double
 Do. Butts from Bilge to Main Sheerstrake, worked Carvel with Butt Straps (7/16) thick, double or Riveted; with Rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre.
 Do. Butts of Main Sheerstrake, double or treble Riveted. Butts of Upper Spar Sheerstrake, and Upper Deck Stringer Plate, double or treble Riveted for 1/2 length amidships. Breadth of laps of plating in double Riveting (4 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? Double riveted
 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? Between double frames No. of Breasthooks, Four Crutches, Three
 What description of Iron is used for the Frames, Beams, Keelsons, Ties, and Stringer Plates, Outside Plating, &c.? Plating by Patent
 Manufacturer's name or trade mark, Angle iron & Malloy's Lock Union Mill

We certify that the above is a correct description of the several particulars therein given.
 Builder's Signature, for the M^r Smith Surveyor's Signature, J. P. M. Smith

IRON448-0287

Workmanship. Are the butts of plating planed or otherwise fitted? Planed 8936 Iron
 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? 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? Very few

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 Foremast 61' x 17" Mainmast 54' x 17"

N ^o .	SAILS.	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.		N ^o .	Weight. Ex. Stock.	Test as per Certificate.	Wght req'd per Rule.	Test req'd per Rule.
	Number for equipment	12953												
	Fore Sails,	Chain	270	1 3/8	34	1 3/8	34	Bowers	1	17.0.10	18.7.3.7	16.3.0	18.0.2.16	
	Fore Top Sails,	(State Machine where Tested, and name of Superintendent)							1	16.3.0	18.0.2.4	16.3.0	18.0.2.16	
	Fore Topmast Stay Sails	Hempen Stream Cable	90	8				(State Machine where Tested, and name of Superintendent)		14.3.21	16.10.0.0	14.0.27	15.17.0.0	
	Main Sails,	Hawser	75	7/8				Stream	1	7.1.21		7.0.0		
	Main Top Sails,	Towlines						Kedges	1	3.2.14		3.2.0		
		Warp	90	5					1	1.3.14		1.3.0		
		All of <u>Good</u> quality.												

Her Standing and Running Rigging of more than sufficient in size and good in quality. She has Three Long Boat and three others
 The present state of the Windlass is new Capstan new and Rudder good Pumps Two beach (Hand-pump)
 Engine Room Skylights.—How constructed? Iron coverings How secured in ordinary weather? solid shutters that flap
 What arrangements are there for deadlights in such for bad weather? Solid shutters and bulls' eyes
 Coal Bunker Openings.—How constructed? Iron pipes How are lids secured? locks How high above deck? 2 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? Cupboards on each side
 Cargo Hatchways.—How formed? Iron coverings 30' above deck State size 15' x 9' 19' x 9' 4"
 If of extraordinary size, state how framed and secured? Ordinary eye
 What arrangement for shifting beams? Iron bars for castles in each hatch
 Hatches, themselves, whether strong and efficient? Yes Main Hatchways.—State size 19' x 9' 4"

Order for Special Survey No. 449 DATES of 1st. On the several parts of the frame, when in place, and before the plating was wrought
 Date 13 July 1870 Surveys held 2nd. On the plating during the progress of riveting built under
 Order for Ordinary Survey No. 5 while building 3rd. When the beams were in and fastened, and before the decks were laid Special Survey
 Date — as per 4th. When the ship was complete, and before the plating was finally coated or cemented
 No. 46 in builder's yard. Section 18. 5th. After the ship was launched and equipped

General Remarks,
 This vessel has a double bottom in the fore and after ends of the united length of 130 ft. The fore and after ends of the flange plates are 5/16 thick. The flange plates at both ends are carried fore and aft continuously, secured by bolts with eye nuts 3x3x7/16, and with longitudinal eye nuts on inside edge of the same eye
 Poop 30 ft long. Forecastle 32 ft long
 This vessel has one deck. The united length of inner bottom is 130 ft, but the thickness of the flange plates is not in conformity with the requirements of the rules.

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, forecastle or raised quarter deck, or of double or part double bottom.
 In what manner are the surfaces preserved from oxidation? Inside Portland Cement Outside Paint
 I am of opinion this Vessel should be Classed 90 A

The amount of the Entry Fee£ 5: .. is received by me,
 Special£ 35: 11: ..
 Certificate : : :
 (Travelling Expenses) (if any) £ —
 Committee's Minute 21st April 1871
 Character assigned 90 A
 M.C. 8/5/71 (A.F.C.)
 This vessel is deemed to be fit for service as recommended above and to be maintained in double bottom.