

IRON SHIPS.

Request for S.S. No. 374

Rec 17/6/64

219 Survey held at Glasgow

Date 11th June

1864

the crew of "Cutha"

Master Mitchell Dalrymple

Gross 534.16 Engine Room 139.76 Register 394.4 Built at Glasgow

en Built 1864 Launched 6th May 1864 By whom built Mess^{rs} Barclay Curle & Co

mers Curro Co Port belonging to Grandmoush Destined Voyage London

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.
191.5		274.55		15		15	1140	

istance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ships.	Inches required per Rule.	Stem, if bar iron, moulding and thickness	Inches. In Ship. 16ths. In Ship.	Inches. In Ship. 16ths. In Ship.	Inches. required per Rule.
doors, Size of Angle Iron, and No. 82 at bottom of Floor Plate.....	21 9/10	21	,, if plate iron, breadth and thickness	2 3/4	17	9/2
depth and thickness of Floor Plate at mid line	4 3/4 6 3/4 9 3/4 10	8 10	Stern-post, if bar iron, moulding and thickness	5 1/2	7	5
depth and thickness of Floor Plate at Bilge Keelson	9 5/16	10	,, if plate iron, breadth and thickness	2 3/4	7	2 1/2
Size of Reversed Angle Iron, and No. 12 at top of Floor Plate..	3 3/8 10 3 22 10	9	Keel, if bar iron, depth and thickness.....	2 3/4	7	2 1/2
rames, Size of Angle Iron, single & double..	4 3/4 6 3/4 9 3/4 10	8 10	,, if plate iron, breadth and thickness	2 3/4	7	2 1/2
Reversed Iron, if to every frame and to every other frame.....	to the Hold Beams to the Gunwale		Garboard Plates, Breadth and thickness	9/16	10	10
eam, Deck (N° 15) double Angle Iron, Plate, or Bulb Iron.....	1/4 5 10 8 3/4	10	From Garboard to upper part of Bilge.....	9	10	9
,, double & single Angle Iron, on upper edge.....	2 3/4 2 3/4 10 2 2 10	9	From upper part of Bilge to Sheerstrakes, Breadth and thickness	10	10	8
,, average space between	3 feet 8 3/4 ft 0 ins		Sheerstrakes, Breadth and thickness	10	10	10
,, if wood (N°.) sided & moulded	" "		Butt Straps to outside plating, Breadth and thickness	9/16	10	10
Hold, or Lower Deck (N°. 12) double Angle Iron, Plate, or Bulb Iron.....	1/4 5 10 8 3/4	10	Plankshears	10	10	10
,, double & single Angle Iron, on upper edge.....	2 3/4 2 3/4 10 2 2 10	9	Gunwale Plate or Stringer on ends of Up. Dk Beams	2 3/4	10	10
,, average space between	3 feet 8 3/4 ft 0 ins		Angle Iron on ditto	10	10	8
,, if wood (N°.) sided & moulded	" "		Diagonal Tie Plates on Beams	10	10	8
Paddle, wood, sided and moulded, or if Iron, size of Plate	" "		Waterway	Red Pine	12	10
Engine	" "		Deck	Yellow Pine	3 1/2	10
Keelson, single plate, box, or intercostal	3 2/3 10 31	8	Ceiling in Hold	Am. 100 ft. Red Pine	2	10
Size of Plates Angle Irons	1 1/2 4 1/2 10 32	10	Ceiling betwixt Decks	Red pine	2	10
Size of Angle Irons	1 1/2 4 1/2 10 32	10	Beam Clamps or Spirketting Shelf	"	10	10
Ditto Bilge (No. 100)	" "		Stringer Plates on ends of Hold or Lower Dk Beams	2 3/4	10	10
Transoms, material	"		Ceiling between Decks	2 3/4 4 1/2 ft 0 ins	9 1/2	10
if none, in what manner compensated for.			Stringer or Tie Plates outside Hatchways	10	10	8
Weight-heads, and Hawse Timbers	"		Deck Beam Clamps or Spirketting	"	10	10
The Frames or Ribs extend in one length from Middle line to Gunwale riveted through plates with (3/8 in.) rivets, about (5 1/2) apart.			Shelf	"	10	10
The reverse angle irons on the floors extend in one length across the middle line from upper part of Hold Beams to Deck			Stringers in Hold	10	10	10
,, , , , on the frames alternate from middle line to Gunwale			Deck, Lower	Baltic Spruce	3	10
Keelson, how are the various lengths of plates or angle irons connected?			Deck, Upper, how fastened to Beams	Butt and Screw Bolts		
Plates, Garboard, double & single riveted to keel & at upper edge, with rivets (1 3/4 ins.) diaméter averaging (3/4 in.) from centre to centre of rivet.			Bulkheads, N°. Four Thickness of 1/2			
,, Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1/2 in.) thick, or clench, double & single riveted ; rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets.			Thickness of 1/2			
,, Butts from Keel to turn of bilge, worked carvel with a lining piece (1/2 in.) thick, double & single riveted ; rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? Yes						
,, Edges from bilge to sheerstrake, worked carvel with a lining piece (1/2 in.) thick, or clench, double & single riveted ; rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the stake below? Yes						
,, Edge of Sheerstrake, double & single riveted? Lining out						
,, Butts from bilge to planksheers, worked carvel with a lining piece (1/2 in.) thick, double & single riveted ; rivets (3/4 in.) diameter, averaging (3/4 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (1 1/2 in.) Breadth of laps in single rivetting (2 1/2 in.)						
Butt Straps of Keelsons, Stringer and Tie Plates, double & single riveted?						
Planksheer, how secured to the plating of the sides						
Waterway	"					
Deck Beams, how secured to the side?						
Hold or Lower Deck	"					
Paddle	"					
No. of breasthooks Four crutches Four how are pointers compensated?						
What description of iron is used for the angle iron and plate iron in the vessel?						

Explain by sketch Sheerstrake extended above the Waterway if necessary. Crew Bolts and Huts

Dundee and Dundee 3 Barclay, Curle & Co.
Builder's Signature
Hoy's Register Foundation

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 riveted 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 fay 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? *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 Butt*

Her Masts, Yards, &c., are in *Red Line* condition, and sufficient in size and length.

She has SAILS.

*A small
set of
Sails
and*

N°.	Fore Sails,
	Fore Top Sails,
	Fore Topmast Stay Sails,
	Main Sails,
	Main Top Sails,

CABLES, &c.

	Fathoms.	Inches.
Tested to 200 tons	5	4
Chain	240	450
Hempen Stream Cable	999	1
Hawser	1000	3
Towlines	80	8
Warp	80	5
All of <i>Good</i> quality.		4

ANCHORS, and their weights.

N°.	Weight
Bower	7.5
Brutmann Patent	13.1
Stream,	16..
Kedge,	3.0
	1.2

Her Standing and Running Rigging *Galo Mai Hemp* sufficient in size and *Good* in quality.

She has a 33 ft life Boat *Long Boat* and a 22 ft Quarter Boat and a 10 ft Dandy. 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 Specie*
 - 2nd. On the plating during the progress of rivetting *Survey and Seen by the following*
 - 3rd. When the beams were in and fastened, and before the decks were laid *dates. Feb 4. 8. 10. 19. 22. 26. Mar*
 - 4th. When the ship was complete, and before the plating was finally coated *1. 8. 9. 12. 17. 26. 29. 31. Apr 4. 18. 21*
 - 5th. After the ship was launched *30 May 4. 7. 12. 20 June 11th 1864*

The Frames are spaced 18 ins apart for 60 feet in Ironships 4 x 3 x 16. In the Engine Room space which is 45 feet long the Frames and Reverse Bars are doubled to the upper part of Bilges, and Frames increased to 4 x 4 x 16. Bulk from the Intercostal and Bilge Keels and 4 x 16. Sheerstrake doubled with a 16 plate 30 ins broad for a length of 144 feet. Main piece of Windlass British Oak fitted with English Oak Stantions in iron sockets (cast) bolted to the Waterway and Gimbal Plate.

In what manner are the surfaces preserved from oxidation?

Red Lead and Patent Paint

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

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

June 11/64 Special £26 : : :

Certificate (if required) £ : : Grats

Committee's Minute 17th June 1864

Character assigned *A. 1*

A. C. Darland

I have examined the Report and find it correct for the class recommended -

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June 17/64 Lloyd's Register Foundation

