

IRON SHIPS.

order for 5549

Rec 5/10/87

No. 975 Survey held at Mayno Date 18th September 1857

on the "Big Porto" Master William Moore

Tonnage Gross Engine Room Register 207⁶⁰ Built at Penfrew

When Built 1857 By whom built J. N. Hely & Co. Owners John Mitchell

Port belonging to Mayno Destined Voyage not fixed

If Surveyed Afloat or in Dry Dock Building

Length aloft	Breadth	Depth from Beam to top of Floor	Power of Engines	Horse No.
116 ⁹ / ₁₀	20 ¹⁰ / ₁₀	13		
Distance between Floors amidships	1 6		Stem, $\frac{1}{2}$ bar iron, moulding and thickness	5 ¹ / ₂ 6x2
" " forward and aft	1 6		" if plate iron, breadth and thickness	" " "
" " Ribs amidships	1 6		Stern-post, $\frac{1}{2}$ bar iron, moulding and thickness	5 2 6x2
" " forward and aft	1 6		" " if plate iron, breadth and thickness	" " "
Floors, Size of Angle Iron, and No. 1 at bottom of Floor Plate	3 ¹ / ₂ 2 ¹ / ₂ 5 ¹ / ₁₆		Keel, $\frac{1}{2}$ bar iron, depth and thickness	5 ¹ / ₂ 6x2
" depth & thickness of Plate at mid line	12 ⁵ / ₁₆	13x	" if plate iron, breadth and thickness	" " "
" " " at turn of bilge			Garboard Plates, thickness	1 ¹ / ₂ "
" Size of Reversed Angle Iron, and No. 1 at top of Floor Plate	2 ¹ / ₂ 2 ¹ / ₂ 5 ¹ / ₁₆		" to bilge	7 ¹ / ₁₆ "
Ribs, Size of Angle Iron, single or double	3 ¹ / ₂ 2 ¹ / ₂ 5 ¹ / ₁₆		Bilge	7 ¹ / ₁₆ "
" " Reversed Iron, 1 to every frame	3 ¹ / ₂ 2 ¹ / ₂ 5 ¹ / ₁₆		" to Wales	5 ¹ / ₁₆ "
" " or every alternate frame	3 ¹ / ₂ 2 ¹ / ₂ 5 ¹ / ₁₆		Wales	5 ¹ / ₁₆ "
Beams, Deck (N ^o . 35) double or single Angle Iron	5 3 ³ / ₈	24x22 5	Topsides	5 ¹ / ₁₆ "
" " depth & thickness of plate amidships			Sheerstrakes	7 ¹ / ₁₆ "
" " double or single Angle Iron, on lower edge			Planksheers	" " "
" " average space between	3 feet		Gunwale Plate or Stringer	Pitch Pine 12 7 Angle shop
" " if wood (N ^o .) sided & moulded			Waterway	Plat Iron 18 3/8 14 + 3 + 3/8
" X Hold, (N ^o . 4) double or single Angle Iron	6 3 ¹ / ₂		Deck	Pitch Pine 6 5
" " depth & thickness of plate amidships			Ceiling in flat	Yellow Pine 3 "
" " double or single Angle Iron, on lower edge			Bilge Planks inside	Rock Elm 2 "
" " average space between	Bay in Space		Ceiling from Bilge to Clamps	Sparrd 1 ¹ / ₂ "
" " if wood (N ^o .) sided & moulded			Hold Beam Clamps	" " "
" Paddle, wood, sided and moulded or if Iron, size of Plate			" " Shelf	" " "
" Engine			" " Stringers	Angle Iron 5 x 3 ¹ / ₂
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	3 3 ³ / ₈		Ceiling between Decks	" " "
" Side or Bilge	14 3 ³ / ₈ Plate		Stringers	" " "
" Number	3 3 ³ / ₈		Deck Beam Clamps	" " "
			" " Shelf	" " "
			Stringers in Hold	" " "
			Deck, Lower	" " "

Transoms, material or, if none, in what manner compensated for.

Knight-heads " British Oak are they free from defects?

Hawse Timbers " "

The Ribs extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (7 in.) apart.

The reverse angle irons on the floors extend in one length across the middle line from Keel to above Bilge & every other to Beams

" " " on the ribs " " from Keel to do do do

Keelson, if wood, length of scarp if iron, how are the various lengths connected? Shifted

Plates, Garboard, double or single rivetted to keel, with rivets (7/8 ins.) diameter averaging (3 in.) from centre to centre of rivet.

" edges from Garboards to turn of bilge, worked carvel with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 ins.) from centre to centre of rivets.

" butts from Garboards to turn of bilge, worked carvel with a lining piece (3/16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

" edges from bilge to wales, worked carvel with a lining piece (1) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets.

" butts from bilge to wales, worked carvel with a lining piece (3/16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/2 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below?

" edges of wales and to planksheers, worked carvel with a lining piece (1) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter averaging (2 1/2 ins.) from centre to centre of rivets.

Planksheer, how secured to the plating of the sides { Explain by sketch, } Bolted to Stringers

Waterway " " planksheer and to the Beams { if necessary.

Side trussing breadth and thickness of plates how secured

Deck trussing " " " " " "

Deck Beams, how secured to the side Plate Nuts Rivetted to Ribs

Hold " " " " " "

Paddle " " " " " "

No. of breasthooks crutches how are pointers compensated? Angle Iron

What description of iron is used for the angle iron and bar iron in the vessel? Said to be Best

Builder's Signature. J. N. Hely & Co. Wm. McMillan

IRON 431-0211

640 Iron

Workmanship. Are the lands or laps of the clenchwork in all cases sufficiently wide to take the rivets and support the strain on them? *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 all solid with sliver pieces, or are they in short lengths? *Short lengths*
 Do the holes for rivetting plate to lining piece, or plate to plate, &c., answer 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? *Several*
 Was the plating caulked internally in the wake of the frames or ribs? *No*

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

She has SAILS.			CABLES, &c.		ANCHORS, and their weights.	
N ^o .		Fathoms.		Inches.	N ^o .	
2	Fore Sails,	180	Chain	1 1/4	3	Bower, 11-3-19410-3-12
2	Fore Top Sails,	60	do	3/4	1	7-2-0 Common
2	Fore Topmast Stay Sails,	75	Hempen Stream Cable	1/4	1	Stream, 4-1-0 do
1	Main Sails,	✓	Hawser	6	1	Kedge, 2-3-0 do
1	Main Top Sails,	70	Towlines	✓		
	and other requisite Sails		Warp	14		
			All of <i>Good</i> quality.			

Her Standing and Running Rigging *Complete* sufficient in size and *Good* in quality.

She has *One 18 1/2 feet* Long Boat and *one 16 feet* Boat

The present state of the Windlass is *Good* Capstan *Good* and Rudder *Good* Pumps *Good*

GENERAL REMARKS.

Statement and date of repairs; extent of corrosion (if any) both internally and externally; and condition of rivets.
This Vessel has been Specially Surveyed while Building
is in good Condition fit for the safe Conveyance of dry and
Perishable Cargoes to and from all parts of the World
Testing Certificate of the Chain Cable, produced

In what manner are the surfaces preserved from oxidation? *Perecechy Patent Paint*

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

The amount of the Fee £ 3 : : : is received by me,

Special £ 5 : 4 : :

Certificate (if required) £ : : : :

Committee's Minute *6th Oct 1854*

Character assigned *A. 1* *Survey*
Wm. Robertson
John Maxwell Junr
27th 1855
(Signed)
 Lloyd's Register
 Survey