

IRON SHIPS.

No. 995 Survey held at Paisley Date 23^d October 1852
 on the Schooner "Pioneer" Master Alexander Brodie
 Tonnage Gross Engine Room Register 79 5/8 Built at Paisley
 When Built 1852 By whom built Donald, Wilson & Co. Owners Donald, Wilson & Co.
 Port belonging to Glasgow Destined Voyage Coaster
 If Surveyed Afloat or in Dry Dock Building

Length aloft	Feet.	Inches.	Breadth	Feet.	Inches.	Depth from Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse No.
Length aloft	63		Breadth	17		Depth from Beam to top of Floor	8	7 1/2		
Distance between Floors amidships	1	6				Stem, <u>1/2</u> bar iron, moulding and thickness	5	1		
" " " forward and aft	1	6				" if plate iron, breadth and thickness	"	"		
" " Ribs amidships	1	6				Stern-post, <u>1/2</u> bar iron, moulding and thickness	5	1		
" " " forward and aft	1	6				" if plate iron, breadth and thickness	"	"		
Floors, Size of Angle Iron, and No. <u>1</u> at bottom of Floor Plate	3 1/2	2 1/2	3/8			Keel, <u>1/2</u> bar iron, depth and thickness	5	1		
" depth & thickness of Plate at mid line	10	1/2				" if plate iron, breadth and thickness	"	"		
" " " at turn of bilge						Garboard Plates, thickness	3/8			
" Size of Reversed Angle Iron, and No. <u>1</u> at top of Floor Plate	2	2 1/4				" to bilge	5/16			
Ribs, Size of Angle Iron, single or double	3 1/2	2 1/2	3/8			Bilge	5/16			
" " Reversed Iron, <u>1/2</u> to every frame or every frame						" to Wales	5/16			
Beams, Deck (N ^o . <u>15</u>) double or single	3 1/2	3	3/8			Wales	5/16			
" Angle Iron						Topsides	5/16			
" " depth & thickness of plate amidships						Sheerstrakes	3/8			
" " double or single Angle Iron, on lower edge						Planksheers	Red Pine	1 1/2	14	
" " average space between	36					Gunwale Plate or Stringer	Plate	1 1/2	14	
" " if wood (N ^o .) sided & moulded						Waterway				
" Hold, (N ^o .) double or single						Deck	Yellow Pine	2 1/2		
" Angle Iron						Ceiling in flat	Yellow Pine	2 1/2		
" " depth & thickness of plate amidships						Bilge Planks inside	do do	2		
" " double or single Angle Iron, on lower edge						Ceiling from Bilge to Clamps	Open Battens			
" " average space between						Hold Beam Clamps				
" " if wood (N ^o .) sided & moulded						" " Shelf				
Paddle, wood, sided and moulded or if Iron, size of Plate						" " Stringers				
Engine						Ceiling between Decks				
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	3	2 1/2	3/8			Stringers				
" Side or Bilge	13	3/8				Deck Beam Clamps				
" Number						" " Shelf				
						Stringers in Hold				
						Deck, Lower				

Transoms, material or, if none, in what manner compensated for. By Angle Iron
 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 (5/8 in.) rivets, about (6 in.) apart.
 The reverse angle irons on the floors extend in one length across the middle line from Keel to Beams Keels
 " " " on the ribs " " " from Keel to 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 (5/8 ins.) diameter averaging (2 1/2 in.) from centre to centre of rivet.
 " edges from Garboards to turn of bilge, worked carvel with a lining piece (5/16 in.) thick, or clencher, double or single rivetted; rivets (5/8 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 (5/16 thick, double or single rivetted; rivets (5/8 in.) diameter, averaging (2 1/2 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 (5/16 thick, or clencher, double or single rivetted; rivets (5/8 in.) diameter, averaging (2 1/2 ins.) from centre to centre of rivets.
 " butts from bilge to wales, worked carvel with a lining piece (5/16 thick, double or single rivetted; rivets (5/8 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 (5/16 thick, or clencher, double or single rivetted; rivets (5/8 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 Keels 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 } Donald Wilson & Co. Builder's Signature.

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? *Both*
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,	103	Chain	3 1/2	2	Bower,	6 - 2 - 14 & 14 - 3 - 20
1	Fore Top Sails,	75	Hempen Stream Cable	5 1/2	1	Stream,	2 - 3 - 21
1	Fore Topmast Stay Sails,	-	Hawser	-	1	Kedge,	1 - 1 - 0
1	Main Sails,	75	Towlines	3 1/2			
1	Main Top Sails,	75	Warp	2 1/2			
	and other legitimate sails		All of <i>Good</i> quality.				

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

She has *One 14 ft* Long Boat and

The present state of the Windlass is *Good* Capstan *Good* and Rudder *Good* Pumps *2 Good*

GENERAL REMARKS.

Statement and date of repairs; extent of corrosion (if any) both internally and externally; and condition of rivets.

Surveyed several times while Building in accordance with the Rules and is fit for the safe conveyance of dry and perishable Cargoes to and from all parts of the World Testing Certificate of the Chain Cables produced

In what manner are the surfaces preserved from oxidation? *Red Lead & Linseed Oil Paint*

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

The amount of the Fee£ 1 : - : - is received by me,
Now Special£ 2 : 2 : -

Certificate (if required)£ - : 2 : 6

Committee's Minute *24th November 1854*

Character assigned *Builder of Iron*

Certificate to be sent to Messrs. Donald, Wilson & Co. Abbey Foundry Paisley

*Wm Robertson
John Maxwell Jun^r*

