

# IRON SHIPS.

Rec 20/11/54

No. 995 Survey held at "Paisley" Date 23<sup>d</sup> October 1854  
 on the Schooner "Pioneer" Master Alexander Brodie  
 Tonnage Gross        Engine Room        Register 79 <sup>5</sup>/<sub>100</sub> Built at Paisley  
 When Built 1854 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.	Extreme Breadth	Feet.	Inches.	Depth from Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse No.
Length aloft	63	0	Extreme Breadth	17	0	Depth from Beam to top of Floor	8	7 1/2	Power of Engines	5
Distance between Floors amidships	1	6	Stem, if bar iron, moulding and thickness	5	1	Stem, if plate iron, breadth and thickness	5	1	Stern-post, if bar iron, moulding and thickness	5
Distance between Floors forward and aft	1	6	Keel, if bar iron, depth and thickness	5	1	Keel, if plate iron, breadth and thickness	5	1	Garboard Plates, thickness	3/8
Distance between Floors Ribs amidships	1	6	Garboard Plates to bilge	5	10	Bilge	5	10	Bilge to Wales	5
Distance between Floors forward and aft	1	6	Bilge to Wales	5	10	Wales	5	10	Wales	5
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	3 1/2	2 1/2	3/8	3	3/8	Topsides	5	10	Sheerstrakes	3/8
Depth & thickness of Plate at mid line	10	1/2	Planksheers	14	14	Gunwale Plate or Stringer	14	3/8	Waterway	2 1/2
Depth & thickness of Plate at turn of bilge	10	1/2	Gunwale Plate or Stringer	14	3/8	Deck	2 1/2	3/8	Ceiling in flat	2 1/2
Size of Reversed Angle Iron, and No. at top of Floor Plate	2	2 1/4	Deck	2 1/2	3/8	Ceiling in flat	2 1/2	3/8	Bilge Planks inside	2 1/2
Ribs, Size of Angle Iron, single or double	3 1/2	2 1/2	Ceiling in flat	2 1/2	3/8	Bilge Planks inside	2 1/2	3/8	Ceiling from Bilge to Clamps	Open Battens
Reversed Iron, if to every frame or every frame	3 1/2	2 1/2	Bilge Planks inside	2 1/2	3/8	Ceiling from Bilge to Clamps	Open Battens	3/8	Hold Beam Clamps	3/8
Beams, Deck (N <sup>o</sup> . 15) double or single	3 1/2	3	Ceiling from Bilge to Clamps	Open Battens	3/8	Hold Beam Clamps	3/8	3/8	Hold Beam Clamps Shelf	3/8
Angle Iron	3 1/2	3	Hold Beam Clamps	3/8	3/8	Hold Beam Clamps Shelf	3/8	3/8	Stringers	3/8
Depth & thickness of plate amidships	36	0	Stringers	3/8	3/8	Stringers	3/8	3/8	Ceiling between Decks	3/8
Double or single Angle Iron, on lower edge	36	0	Ceiling between Decks	3/8	3/8	Ceiling between Decks	3/8	3/8	Stringers	3/8
Average space between	36	0	Stringers	3/8	3/8	Stringers	3/8	3/8	Deck Beam Clamps	3/8
If wood (N <sup>o</sup> . ) sided & moulded	36	0	Deck Beam Clamps	3/8	3/8	Deck Beam Clamps	3/8	3/8	Deck Beam Clamps Shelf	3/8
Hold, (N <sup>o</sup> . ) double or single	36	0	Deck Beam Clamps Shelf	3/8	3/8	Deck Beam Clamps Shelf	3/8	3/8	Stringers in Hold	3/8
Angle Iron	36	0	Stringers in Hold	3/8	3/8	Stringers in Hold	3/8	3/8	Deck, Lower	3/8
Depth & thickness of plate amidships	36	0	Deck, Lower	3/8	3/8	Deck, Lower	3/8	3/8		
Double or single Angle Iron, on lower edge	36	0								
Average space between	36	0								
If wood (N <sup>o</sup> . ) sided & moulded	36	0								
Paddle, wood, sided and moulded or if Iron, size of Plate	36	0								
Engine	36	0								
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions	3	2 1/2								
Side or Bilge	13	3/8								
Number	13	3/8								

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         
 " " " on the ribs " " " from Keel to         
 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        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 clenwork 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 fay 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 <sup>o</sup> .		Fathoms.		Inches.	N <sup>o</sup> .			
2	Fore Sails,	103	Chain .....	3 1/2	2	Bower,	6-2-14	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 requisite 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 Certificates 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 : 0 : 0 is received by me,  
*now* Special .....£ 2 : 2 : 0

Certificate (if required) .....£ 0 : 2 : 6

Committee's Minute *2<sup>nd</sup> November 1854*

Character assigned *Iron*

*Wm Roberton*  
*John Maxwell Jun<sup>r</sup>*

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

