

IRON SHIPS.

No. 2637 Survey held at Bristol
on the Steamer "Thos Powell"

Date 12th July

Rec 24/7/16 18

Tonnage Gross 399 Engine Room 127 Register 272 Built at Bristol
When Built 1856 By whom built Robert L. Frigg Owners Thos Powell

Port belonging to Newport Destined Voyage Coast

If Surveyed Afloat or in Dry Dock *During the Building*

Length aloft		Feet.		Inches.		Extreme Breadth		Feet.		Inches.		Depth from Beam to top of Floor		Feet.		Inches.		Power of Engines		Horse No.	
160		6		25		2		13		3								70			
Distance between Floors amidships		1-6		Sketch, when necessary.																	
" " " forward and aft		"																			
" " Ribs amidships		"																			
" " " forward and aft		"																			
Floors, Size of Angle Iron, and No. 1 at bottom of Floor Plate		3 1/2		3		7/16		✓													
" depth & thickness of Plate at mid line		14		"		7/16		✓													
" " " at turn of bilge		6		"		7/16															
" Size of Reversed Angle Iron, and No. 2 at top of Floor Plate		2 1/2		3		3/8															
Ribs, Size of Angle Iron, single or double		3 1/2		3		7/16		2 1/2 x 2 1/2 x 6/16													
" " Reversed Iron, if to every frame or every alternate frame		2 1/2		3		3/8		2 1/2 x 2 1/2 x 5/16													
Beams, Deck (No. 54) double or single Angle Iron		3		2 1/2		5/16		✓													
" " depth & thickness of plate amidships		6 1/2		"		9/16		T													
" " double or single Angle Iron, on lower edge		3 feet						✓													
" " average space between		9 feet						✓													
" " if wood (No.) sided & moulded																					
" Hold, (No. 17) double or single Angle Iron		5		4		1/2		✓													
" " depth & thickness of plate amidships																					
" " double or single Angle Iron, on lower edge																					
" " average space between		9 feet						✓													
" " if wood (No.) sided & moulded																					
" Paddle, wood, sided and moulded or if Iron, size of Plate																					
" Engine " " " " "																					
Keelson, wood, sided & moulded, iron, size of plate, if Box, give sketch & dimensions		16		"		7/16		✓													
" Side or Bilge		4		3				✓													
" Number		11																			
Stem, if bar iron, moulding and thickness		6 1/2 x 2 1/2		✓																	
" " if plate iron, breadth and thickness		6 1/2 x 3 1/2		✓																	
Stern-post, if bar iron, moulding and thickness		6 1/2 x 3 1/2		✓																	
" " if plate iron, breadth and thickness		6 1/2 x 2 1/2		✓																	
Keel, if bar iron, depth and thickness		6 1/2 x 2 1/2		✓																	
" " if plate iron, breadth and thickness																					
Garboard Plates, thickness		Description of Iron.		8/16		9/16															
" to bilge		"		7/16		9/16															
Bilge		"		7/16		9/16															
" to Wales		"		3/8		9/16															
Wales		"		3/8		9/16															
Topsides		"		3/8		9/16															
Sheerstrakes		"		7/16		9/16															
Planksheers		"		Lust Oak		6		13/2													
Gunwale Plate or Stringer		"		Iron		16		6/16													
Waterway		"		English Oak		6		-													
Deck		"		Yellow Pine		3 1/2		-													
Ceiling in flat		"		Iron																	
Bilge Planks inside		"		none																	
Ceiling from Bilge to Clamps		"		-																	
Hold Beam Clamps		"		-																	
" " Shelf		"		-																	
" " Stringers		"		16		6/16		✓													
Ceiling between Decks		"		16		6/16		✓													
Stringers		"		16		6/16		✓													
Deck Beam Clamps		"		-																	
" " Shelf		"		-																	
Stringers in Hold		"		double angle		4 x 3 x 3/8		✓													
Deck, Lower		"		Iron																	

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

Knight-heads „ *English Oak* } are they free from defects? *yes*
Hawse Timbers „ *do do* }

The Ribs extend in one length from *Keel* to *Gunnwale*

The Ribs extend in one length from *keel* to *gunwale* rivetted through plates with ($\frac{3}{4}$ in.) rivets, about (6 ins) apart.

The reverse angle irons on the floors extend in one length across the middle line from bilge to bilge
 „ „ „ on the ribs „ „ „ from floors to the gunwale

Keelson, if wood, length of scarph if iron, how are the various lengths connected? *with both strips and reverse angle on top and bottom*

Plates, Garboard, double or single rivetted to keel, with rivets ($1/4$ ins.) diameter averaging ($3\frac{1}{4}$ in.) from centre to centre of rivet. *on top and bottom*

edges from Garboards to turn of bilge, ~~worked~~ carvel with a lining piece ($\frac{1}{16}$ in.) thick, ~~or~~ clencher, double or single rivetted; rivets ($\frac{3}{4}$ in.) diameter, averaging ($2\frac{1}{4}$ ins.) from centre to centre of rivets.

„ butts from Garboards to turn of bilge, worked carvel with a lining piece ($\frac{9}{16}$) thick, double ~~or single~~ rivetted; rivets ($\frac{3}{4}$ in.) diameter, averaging ($2\frac{1}{4}$ ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? *yes*

edges from bilge to wales, worked ~~over~~ with a lining piece ($\frac{9}{16}$) thick, ~~or~~ clenchers, ~~double or single~~ rivetted; rivets ($\frac{3}{4}$ in.) diameter, averaging ($2\frac{1}{4}$ ins.) from centre to centre of rivets.

„ butts from bilge to wales, worked carvel with a lining piece ($\frac{9}{16}$) thick, double ~~or single~~ rivetted; rivets ($\frac{3}{4}$ in.) diameter, averaging ($2\frac{1}{2}$ in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? *yes*

edges of wales and to planksheers, worked ~~carvel~~ with a lining piece ($\frac{9}{16}$) thick, ~~or~~ clencher, ~~double or~~ single rivetted; rivets ($\frac{3}{4}$ in.) diameter averaging ($2\frac{1}{2}$ ins.) from centre to centre of rivets.

Planksheer, how secured to the plating of the sides	}	<i>Explain by sketch, if necessary.</i>
Waterway " " planksheer and to the Beams		

Side trussing	breadth and thickness of plates	how secured
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Deck trussing	"	"	"	"	"
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Deck Beams, how secured to the side

Hold „ „

Paddle	„	„		<i>Short Bulkheads</i>
No. of breasthooks	2	crutches		how are pointers compensated?

What description of iron is used for the angle iron and bar iron in the vessel?

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? *solid*
 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? *no*
 Was the plating caulked internally in the wake of the frames or ribs? *no*

1099 *Her*

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

She has SAILS.			CABLES, &c.		ANCHORS, and their weights.	
N ^o .		Fathoms.		Inches.	N ^o .	
/	Fore Sails,	240	Chain	1 1/4	3	Bower, 15 1/2 - 15 - 14 1/2
/	Fore Top Sails,	90	Hempen Stream Cable	7 1/2	1	Stream, 6
/	Fore Topmast Stay Sails,	90	Hawser	6	1	Kedge, 2 1/2
/	Main Sails,	100	Towlines	4 1/2		
/	Main Top Sails,	100	Warp	3 1/2		
and <i>Mizen & Lib</i>			All of _____ quality.			

Her Standing and Running Rigging *new* sufficient in size and *good* in quality.

She has *one* Long Boat and *two Quarter*

The present state of the Windlass is *patent* *2 Steen Winches* Capstan and Rudder *good* Pumps *2 Metal*

GENERAL REMARKS.

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

Specially Surveyed during the Building - Is of large dimensions and the Workmanship and materials of the best description
Has an Iron false bottom, to contain Water for Ballast.
The chain cables have sustained a tension of 22 1/2 & 25 tons

In what manner are the surfaces preserved from oxidation? *Painted during the building.*

I am of opinion this Vessel should be classed *GA1*

The amount of the Fee£ *4* : : is received by me,

James Wood
 Special£ *20* : : -

Certificate (~~if~~ required)£ : :

Committee's Minute *25th July 1856*

Character assigned *A for 9 Years*
Built of Iron
LD

This Vessel appears eligible for the Class
James Wood
 Lloyd's Register Foundation