

IRON SHIPS.

No. 289 Survey held at Newcastle.

Date January 17

1845

on the 3 masted Aerial Screw Schooner "Hull" Master John Mopman.

Tonnage—Gross 530 1/10 Engine Room 25 1/10 Register 435 2/10 Built at Newcastle.

When built 1853. By whom built Palmer Brothers & Co. Owners Palmer Brothers & Co.

Port belonging to Newcastle. Destined Voyage London (Coastg)

If Surveyed Afloat or in Dry Dock On the Slip.

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse. No.
164	7/10		26	1/10		14	9/10		35 2	70
Distance between Floors amidships	1	3				Stem, if bar iron, moulding and thickness	6	ins by 2		
" " " forward and aft	1	8				" if plate iron, breadth and thickness				
" " Ribs amidships	1	3				Stern-post, if bar iron, moulding and thickness	6	ins by 3 1/2		
" " " forward and aft	1	8				" if plate iron, breadth and thickness				
Floors, Size of Angle Iron, and No. / at						Keel, if bar iron, depth and thickness	6	by 2		
bottom of Floor Plate	4	ins by 3				" if plate iron, breadth and thickness				
" depth & thickness of Plate at mid line	2	ft by 3/8				Garboard Plates, thickness	1/2	ins		
" " " at turn of bilge	6	ins by 3/8				" to bilge	1/2			
" Size of Reversed Angle Iron, and No. / at top of Floor Plate	2	ft by 2				Bilge	1/2			
Ribs, Size of Angle Iron, single or double	4	ins by 3				" to Wales	1/2	4 7/16		
" Reversed Iron, if to every frame	In short lengths					Wales	1/2			
" or every frame	Mostly to every frame					Topsides	1/2	7/16		
Beams, Deck (No. 40) double or single	6	ins by 3				Sheer-strakes	1/2	7/16		
Angle Iron	6	ins by 3				Planksheers	8	ins thick		
" depth & thickness of Plate amidships	3	ft 9				Gunwale Plate or Stringer	1/2	by 18		
" double or single Angle Iron						Waterway	8	ins thick		
" on lower edge						Deck	3 1/2	ins		5/16 Iron Plate
" average space between						Ceiling in flat	2	to 3		ins thick
" if wood (No.) sided & moulded						Bilge Planks inside				
Hold, (No. 14) double or single	6	ins by 3				Ceiling from Bilge to Clamps				
Angle Iron						Hold Beam Clamps				
" depth & thickness of Plate amidships	3	ft 4				" Shelf				
" double or single Angle Iron						" Stringers				
" on lower edge						Ceiling between Decks				
" average space between						Stringers				
" if wood (No.) sided & moulded						Deck Beam Clamps				
Paddle, wood, sided and moulded						" Shelf				
" or if Iron, size of Plate						Stringers in Hold				
Engine						Deck, Lower				
Keelson, wood, sided & moulded, iron, size of										
plate, if Box, give sketch & dimensions										
" Side or Bilge										
" Number										
Transoms, material	Iron									
Knight-heads										
Hawse Timbers										
The Ribs extend in one length from	Keel									
The reverse angle irons on the floors extend in one length across the middle line from	Side									
" " " on the ribs										
Keelson, if wood, length of scarp										
Plates, Garboard, double or single rivetted to keel, with rivets (3/4 ins) diameter, averaging (3 in.) from centre to centre of rivet.										
" edges from Garboards to turn of bilge, worked carvel with a lining piece (— in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets.										
" butts from Garboards to turn of bilge, worked carvel with a lining piece (1/2 in.) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No not necessary										
" edges from bilge to wales, worked carvel with a lining piece (— in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets.										
" butts from bilge to wales, worked carvel with a lining piece (1/2 in.) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? No not necessary										
" edges of wales and to planksheers, worked carvel with a lining piece (— in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (2 1/4 ins.) from centre to centre of rivets.										
Planksheer, how secured to the plating of the sides										
Waterway " " planksheer and to the beams										
Side trussing breadth and thickness of plates										
Deck trussing										
Deck Beams, how secured to the side										
Hold " "										
Paddle " "										
No. of breasthooks										
What description of iron is used for the angle iron and bar iron in the vessel?										

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Workmanship. Are the lands or laps of the clench work in all cases sufficiently wide to take the rivets and support the strain on them? *quite so*
Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? *quite*
Do the fillings between the ribs and plates fill in all solid with sliver pieces, or are they in short lengths? *Solid Pieces above the Bilge and Short lengths below. for Water core*
Do the holes for rivetting plate to lining piece, or plate to plate, &c. answer well to each other? *well* and are the rivet holes well and sufficiently counter sunk in the outer plate? *Nicely Counter Sunk.*
Are there any rivets which either break into or have been put through the seams or butts of the plating? *very few.*
Was the plating caulked internally in the wake of the frames or ribs? *now not usual.*

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 .	
	Fore Sails,		Chain			Bower,
	Fore Top Sails,		Hempen Stream Cable			Stream,
	Fore Topmast Stay Sails,		Hawser			Kedge,
	Main Sails,		Towlines			
	Main Top Sails,		Warp			
and			All of _____ quality.			

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

She has _____ Long Boat and _____

The present state of the Windlass is *efficient* Capstan _____ and Rudder *efficient* Pumps *efficient*
Patent

GENERAL REMARKS.

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

This Screw Collier (at the request of Owners) has been built under Special Survey Per Order N^o 60. She has four Iron Bulkheads to height of Deck Beams. also part Iron Deck. viz about 24 feet in length from each end and covered with the Deck Deals and all made strong and tight for water ballast in Compartments below. The workmanship and Materials are good throughout! She was Launched last month and by request the Hull is hereby reported, as will the Machinery & tones when fully Complete.

In what manner are the surfaces preserved from oxidation? *2 Coats of Red lead, one of Peacock's Anti Corrosive & other Paints*

I am of opinion this Vessel should be Classed *A.*

The Amount of the Fee.....£ 5 : 0 : is received by me, *Samuel T. Brown*
Special£ 26 : 10 :
Jan

Certificate (if required)£ : 10 :
Please to for one

Committee's Minute *25 Jan 1853*

Character assigned *A* *B. Smith*