

# IRON SHIPS.

Rev 7/6/66

No. 2902 Survey held at Newcastle Date 5<sup>th</sup> Decr 1865 to 6<sup>th</sup> June 1866  
 on the "Trevethick"  
 Tonnage under tonnage deck 766.72  
 Ditto of poop or spar deck  
 Ditto of engine room 160.01  
 Total Register tonnage 598.71  
 Gross Tonnage 766.72  
 Master Thos. Atkinson  
 Built at Newcastle When built 1866 Launched 24<sup>th</sup> Feby  
 By whom built Palmer's Shipbuilding & Owners W. J. Hutchinson  
 Company  
 Port belonging to Newcastle Desirous Voyage London

If Surveyed while Building, Afloat, or in Dry Dock while building

Length aloft	Feet. Inches.	Extreme Breadth	Feet. Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet. Inches.	Horse.	Power of Engines	100	N°. of Decks
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(Dimensions of Ship per Register, length 201.6 breadth 20.1 depth 17.4)

Keel, if bar iron, depth and thickness .....	Inches in Ship.	Inches required per Rule.	Plates in Garboard Strakes, breadth and thickness .....	Inches. In Ship.	16ths. In Ship.	Inches. required per Rule.	
,, if plate iron, breadth and thickness .....	7/8 x 2 1/2	7/4 x 2 1/2	Ditto from Garboard to upper part of Bilges .....	40	9/6	30	
Stem, if bar iron, moulding and thickness .....	7/8 x 2 1/2	7/4 x 2 1/2	,, from upper part of Bilge to a perpendicular height from upper side of Keel of 3/8ths the entire depth of Hold .....	9/6	9/6	9/6	
,, if plate iron, breadth and thickness .....	8/8 x 5 1/4	7/4 x 5 1/2	,, from 3/8ths depth of Hold to lower edge of Sheerstrake .....	9/6	9/6	9/6	
Stern-post, if bar iron, moulding and thickness .....	21	21	,, Sheerstrake, breadth and thickness .....	3 2/3	9/6	30	
,, if plate iron, breadth and thickness .....	Inches. In Ship. 16ths. In Ship. Inches. required per Rule. Inches. In Ship. 16ths. In Ship. Inches. required per Rule.	Butt Straps to outside plating, breadth and thickness .....	2 3/4	9/6	9/6	9/6	
Distance of Frames from moulding edge to moulding edge, all fore and aft .....	21	21	Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness .....	24	9/6	29	9/6
Frames, Size of Angle Iron, single or double .....	4 3	9/6 4 1/4 3 9/6	Angle Iron on ditto .....	1 3/4	9/6	1 3/4	9/6
,, Reversed Iron, to every frame or every frame .....	3 3	9/6 3 2 1/2 9/6	Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways .....	12	9/6	10 1/2	9/6
Floors, depth and thickness of Floor Plate at mid line .....	18	9/6 18 9/6	Diagonal Tie Plates on ditto .....	12	9/6	10 1/2	9/6
,, Ditto ditto at Bilge Keelson .....	7/2	--	Planksheer, materials and scantlings .....				
,, Size of Reversed Angle Iron, and No. at top of Floor Plate .....	3 3	9/6 3 2 1/2 9/6	Waterway ditto ditto .....				
Beams, Deck (No. 49) double Angle Iron, Plate, Tee, or Bulb Iron .....	7	9/6 7 9/6	Flat of Upper Deck, thickness and material .....	3 1/2	Yellow Pine		
,, double or single Angle Iron, on top edge .....	2 1/2 2 1/2	5/16 2 1/2 2 1/2 5/16	,, how fastened to Beams .....		Mulix Screw Bolts		
,, average space between .....	3 feet 6 inches		Ceiling betwixt Decks and in Hold, thickness and material .....	2 1/2	Pine		
,, Hold, or Lower Deck (No. 30) double Angle Tee, Plate, or Bulb Iron .....	7	9/6 7 9/6	Clamps or Spirketting plate ditto .....	18	9/6		
,, double or single Angle Iron on top edge .....	2 3/4 2 3/4	5/16 3 2 3/4 9/6	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness .....	24	9/6	22	9/6
,, average space between .....	2 1/2 4 1/2	9/6 4 1/2 9/6	Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams .....	5 x 3 x 1/2	4 1/4 x 3 3/4 x 9/6		
,, Paddle, sided and moulded, thickness of Plate size of Angle Iron .....			Stringers in Hold ...	4 1/2 x 3 1/2 x 9/6	4 1/4 x 3 3/4 x 9/6		
,, Engine .....			Flat of Lower Deck, thickness and material .....				
Keelson, single or double plate, box, or intercostal .....	25	9/6 23 9/6	Main piece of Rudder, diameter at head ....	5 1/4		5	
,, Size of Plates .....	14	9/6	,, at heel ....	3		3	
,, Size of Angle Irons .....	3 3	9/6 4 1/4 3 3/4 9/6	(Can the Rudder be unshipped afloat Yes)				
,, Side, single or dble, plate, box, or intercostal .....			Bulkheads, N°. 3 Thickness of 6/16				
,, Bilge (No. 2) at each Bilge, single, or double, plate, or box .....	4 1/2 3 1/2	9/6 4 1/4 3 3/4 9/6	,, Height up upper deck				

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

Knight-heads, and Hawse Timbers

The Frames extend in one length from Keel to Gunwale, cut in way of double bottom and connected by three plates. The reverse angle irons on the floors extend in one length across the middle line from at double to bottom to bilge, and from thence to angle iron on hold beam stringer plate & alternately to deck, on the frames from

Keelson, how are the various lengths of plates or angle irons connected?

Butt straps -

Plates, Garboard, double or

riveted to keel, double or and at upper edge, with rivets (1 1/4 ins.) diameter, averaging (2 3/4 ins.) apart.

,, Edges from Garboards to upper part of bilge, worked clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.

,, Butts from Keel to turn of bilge, worked carvel with butt straps (9/16 x 9/16) thick, double or single riveted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.

Do the butt straps lap over and rivet through the lands of the stave below? No

,, Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single riveted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart.

Do the butt straps lap over and rivet through the lands of the stave below? No

,, Edges of Sheerstrake, double or single riveted? At upper edge Single At lower edge Double

,, Butts from bilge to planksheers, worked carvel with butt straps (9/16 x 9/16) thick, double or single riveted; with rivets (3/4 in.) diameter, averaging (2 3/4 ins.) apart. Breadth of laps in double rivetting (4 1/4) Breadth of laps in single rivetting (2 1/2)

Butt Straps of Keelsons, Stringer and Tie Plates, double or single riveted?

double riveted

Planksheer, how secured to the plating of the sides Explain by sketch

Gutter Waterway

Waterway, planksheer and to the Beams if necessary.

Deck Beams, how secured to the side? Bracket ends

Hold or Lower Deck ditto do

Paddle, " "

What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?

Manufacturer's name or trade mark Angle iron Palmer's Best Jarrow, Plates Consett,

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature FOR Palmer's Shipbuilding & Iron Co. Surveyor's Signature J. H. Letherman

William Cleveland

No. of breasthooks 4 crutches

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Lloyd's Register Foundation

IRON439-0374

4749 Iron

**Workmanship.** Are the lands or laps of the clenchwork in all cases in breadth at least five and a half times the diameter of the rivets in double riveted edges and butts, and at least three and a quarter times the diameter of the rivets where single rivetting is admitted? 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? No ship observed

Do the fillings between the ribs and plates fill in solid with single pieces? or are they in short lengths of various thicknesses? Solid with single pieces

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Generally so 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? A few

Her Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. (If they are of Iron or Steel give the Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of rivetting, quality of Materials, and if stamped with Maker's name.)

She has SAILS.		CABLES, &c., tested at Lyne Proving House					ANCHORS, tested at Lyne Proving House		
N°.		No. on Chain seen by me.	No. and date on Certificate	Fathoms.	Inches.	Tested to. Tons.	N°.	No. on Anchor seen by me.	No. and date on Certificate
one	Fore Sails,	999	999.24.1.66	165	176	37.4.0.0	Bowers	1998	1998.29.12.65
one	Fore Top Sails,	Hempen chain	1050	1050.5.2.66	105	176	37.4.0.0	2003	2003.29.12.65
one	Fore Topmast	Stream Cable			90	78		2030	2030.30.12.65
one	Stay Sails,	Hawser			90	8		including stock	8.0.0
one	Main Sails,	Towlines			90	6		Kedges	4.0.14
one	Main Top Sails,	Warp			90	5			12.1.2
and	All of <u>new</u> quality.				90	4			

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

She has one Long Boat and two others

The present state of the Windlass is good Capstan good and Rudder good Pumps 2 deck Pumps of Engines Pump

Order for Special Survey DATES of

No. 540.

Surveys held

Date 22 Nov 1865

while building

1st. On the several parts of the frame, when in place, and before the plating was wrought

No. 540.

Surveys held

2nd. On the plating during the progress of rivetting

Date 22 Nov 1865

while building

3rd. When the beams were in and fastened, and before the decks were laid

Order for Ordinary Survey

as per

4th. When the ship was complete, and before the plating was finally coated

No. —

Section 18.

5th. After the ship was launched

Special

Survey

State if she has a Spar Deck 66 feet Peep or Forecastle

General Remarks,

This vessel has a double bottom about 116 feet long, she is constructed similar to the SS "Conservator," Report No 9531 & Classed A

In what manner are the surfaces preserved from oxidation? Inside Asphalt & Paint  
Ditto ditto Outside Paint

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

The amount of the Fee ..... £ 5: " : " is received by me,

Sum W Special ..... £ 30: 7: "

Certificate (if required) ..... £ " : " :

Committee's Minute 8th June 1866

Character assigned A.C.I

A.C.I

Lloyd's Register Foundation

This vessel appears eligible for the A.C.I. Class as herein described above  
7 June 1866 W.H.L.

Lloyd's Register of Shipping  
London, 1866