

copy

## IRON SHIPS.

8635

No. 8635 Survey held at Newcastle Date 19<sup>th</sup> March 1862

on the Screw Steamer "Minerva" Master John Mitchell

Tonnage under tonnage deck

Ditto of quarter deck

Ditto of poop, forecabin, or  
other erections on upper deck

Ditto of spar deck

Ditto of engine room

Gross tonnage, less

Total Register tonnage,  
as cut on beamBuilt at Newcastle When built 1862 Launched Jan'y 18<sup>th</sup>

By whom built Palmer Bros &amp; Co. Owners Pickernell Bros

Port belonging to London Destined Voyage London

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

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.	Nº. of Decks
206.5			26.1			14.25			90		
(Dimensions of Ship per Register, length breadth depth)											
Keel, if bar iron, depth and thickness	Inches in Ship.		Inches required per Rule.		Inches in Ship.		Inches required per Rule.		Plates in Garboard Strakes, breadth and thickness		
" if plate iron, breadth and thickness	7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		Ditto from Garboard to upper part of Bilges		
Stem, if bar iron, moulding and thickness	7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		7 x 2 3/4		" from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold		
" if plate iron, breadth and thickness	8 1/2 x 4 3/8		7 x 5 1/2		8 1/2 x 4 3/8		7 x 5 1/2		" from 3/4ths depth of Hold to lower edge of Sheerstrake		
Stern-post, if bar iron, moulding and thickness	18		18		18		18		" Sheerstrake, breadth and thickness		
" if plate iron, breadth and thickness	18		18		18		18		Butt Straps to outside plating, breadth and thickness		
Distance of Frames from moulding edge to moulding edge, all fore and aft	18		18		18		18		Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness		
Frames, Size of Angle Iron, single or double	4 3 7/16		4 3 7/16		4 3 7/16		4 3 7/16		Angle Iron on ditto		
Reversed Iron, if to every frame	3 3 3/8		3 2 3/4 3/8		3 3 3/8		3 2 3/4 3/8		Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways		
to above bilge for every other frame	3 3 3/8		3 2 3/4 3/8		3 3 3/8		3 2 3/4 3/8		Diagonal Tie Plates on ditto		
Floors, depth and thickness of Floor Plate at mid line	18 x 1/2		17 x 1/2		18 x 1/2		17 x 1/2		Planksheer, materials and scantlings		
" Ditto ditto at Bilge Keelson	14 x 1/2		4 x 1/2		14 x 1/2		4 x 1/2		Waterway ditto		
" Size of Reversed Angle Iron, and No. at top of Floor Plate	3 3 3/8		3 2 3/4 3/8		3 3 3/8		3 2 3/4 3/8		Flat of Upper Deck, thickness and material		
Beams, Deck (Nº. 58) double Angle Iron, Plate, Tee, or Bulb Iron	7 x 7/16		6 1/2 x 7/16		7 x 7/16		6 1/2 x 7/16		Yellow Pine how fastened to Beams		
" double or single Angle Iron, on top edge	2 1/2 2 1/2 3/8		2 1/2 2 1/2 3/8		2 1/2 2 1/2 3/8		2 1/2 2 1/2 3/8		Ceiling between Decks and in Hold, thickness and material		
" average space between	3 ft		3 ft		3 ft		3 ft		Clamps or Spiketting ditto		
" Hold, or Lower Deck (Nº. 37) double Angle, Tee, Plate, or Bulb Iron	7 x 7/16		6 1/2 x 7/16		7 x 7/16		6 1/2 x 7/16		Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness		
" double or single Angle Iron on top edge	2 1/2 2 1/2 3/8		2 1/2 2 1/2 3/8		2 1/2 2 1/2 3/8		2 1/2 2 1/2 3/8		Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams		
" average space between	6 ft 3 ft		6 ft 3 ft		6 ft 3 ft		6 ft 3 ft		Stringers in Hold		
" Paddle, sided and moulded, thickness of Plate size of Angle Iron	22 1/2 x 5/8		2 1/2		22 1/2 x 5/8		2 1/2		Flat of Lower Deck, thickness and material		
Keelson, single or double plate, box, or intercostal	22 1/2 x 5/8		2 1/2		22 1/2 x 5/8		2 1/2		Main piece of Rudder, diameter at head		
" Size of Plates	4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		" at heel		
" Size of Angle Irons	4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		(Can the Rudder be unshipped afloat)		
" Side, single or double, plate, box, or intercostal	4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		Bulkheads, Nº. 4 Thickness of 3/8 in		
" Bilge (Nº. 2) at each Bilge, single, or double, plate, or box	4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		4 1/2 3 1/2 7/16		" Height up		
Transoms, material Iron or, if none, in what manner compensated for	Iron		Iron		Iron		Iron		" how secured to the sides of the ship		
Knight-heads, and Hawse Timbers	Iron		Iron		Iron		Iron		" size of vertical angle irons 3.3 x 3/8 and their distance apart 30		
The Frames extend in one length from Keel to Gunwale	Keel		Keel		Keel		Keel		rivetted through plates with (3/4 in.) rivets, about (6) apart.		
The reverse angle irons on the floors extend in one length across the middle line from deck stringer to deck stringer	deck stringer		deck stringer		deck stringer		deck stringer		" on the frames " " from above Bilge to above Bilge		
Keelson, how are the various lengths of plates or angle irons connected?	Shifted		Shifted		Shifted		Shifted		Plates, Garboard, double or rivetted to keel, double or at upper edge, with rivets (1 1/6 ins.) diameter, averaging (4 in.) apart.		
Plates, Garboard, double or rivetted to keel, double or at upper edge, with rivets (1 1/6 ins.) diameter, averaging (4 in.) apart.	double or		double or		double or		double or		Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.		
Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.	double or single		double or single		double or single		double or single		Butts from Keel to turn of bilge, worked carvel with butt straps (9/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.		
Butts from Keel to turn of bilge, worked carvel with butt straps (9/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.	double or single		double or single		double or single		double or single		Do the butt straps lap over and rivet through the lands of the strake below? Yes		
Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 in.) apart.	double or single		double or single		double or single		double or single		Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 in.) apart.		
Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 in.) apart.	double or single		double or single		double or single		double or single		Do the butt straps lap over and rivet through the lands of the strake below? Yes		
Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 in.) apart.	double or single		double or single		double or single		double or single		Edges of Sheerstrake, double or single rivetted? At upper edge At lower edge double		
Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 in.) apart.	double or single		double or single		double or single		double or single		Butts from bilge to planksheers, worked carvel with butt straps (8/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart. Breadth of laps in double rivetting (4 1/4) Breadth of laps in single rivetting (2 1/2)		
Butts from bilge to planksheers, worked carvel with butt straps (8/16) thick, double or single rivetted; with rivets (3/4 in.) diameter, averaging (3 ins.) apart.	double or single		double or single		double or single		double or single		Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted?		
Planksheer, how secured to the plating of the sides	Bolted to Stringer & Plating		Bolted to Stringer & Plating		Bolted to Stringer & Plating		Bolted to Stringer & Plating		Waterway " " planksheer and to the Beams if necessary.		
Waterway " " planksheer and to the Beams if necessary.	Bolted to Stringer & Plating		Bolted to Stringer & Plating		Bolted to Stringer & Plating		Bolted to Stringer & Plating		Deck Beams, how secured to the side? with welded knees riveted to ribs		
Deck Beams, how secured to the side? with welded knees riveted to ribs	do		do		do		do		Hold or Lower Deck ditto do do		
Hold or Lower Deck ditto do do	do		do		do		do		Paddle " " No. of breasthooks 3 crutches		
Paddle " " No. of breasthooks 3 crutches	3		3		3		3		What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?		
What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.?	Best Ship Cast		Best Ship Cast		Best Ship Cast		Best Ship Cast		Manufacturer's name or trade mark		
Manufacturer's name or trade mark	Hawthorn & Co. for angle iron		Hawthorn & Co. for angle iron		Hawthorn & Co. for angle iron		Hawthorn & Co. for angle iron		We certify that the above is a correct description of the several particulars therein given.		
We certify that the above is a correct description of the several particulars therein given.	(Sgd) pro Palmer Bros & Co.		(Sgd) pro Palmer Bros & Co.		(Sgd) pro Palmer Bros & Co.		(Sgd) pro Palmer Bros & Co.		Builder's Signature J. Mc Intyre		
Builder's Signature J. Mc Intyre	Surveyor's Signature		Surveyor's Signature		Surveyor's Signature		Surveyor's Signature		Lloyd's Register Foundation		

IRON 435-0374



27552m

**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 rivetted 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 lay close together throughout their length without requiring any making good of deficiencies? Yes

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

Do the holes for rivetting plate to frames, butt straps, or plate to plate, &c., conform 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? some 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.

N <sup>o</sup> .	CABLES, &c.	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c	N <sup>o</sup> .	Weight.	Test as per	Weight req'd	Test req'd
									Ex. Stock.	Certificate.	per Rule.	per Rule.
1	Chain	240	1 3/8				Bowers	3	21.2.15			
									16.0.0			
									16.0.10			
	Stream	90	8				Stream	1	5.2.25			
	Chain	90	1 5/16									
		90	6									
		90	5				Kedges	1	2.2.9			
		90	4									

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

She has one Long Boat and three others

The present state of the Wind Good and Rudder Good Pumps Good

Order for Special Survey DATES of

No. \_\_\_\_\_ Surveys held

Date \_\_\_\_\_ while building

Order for Ordinary Survey as per

No. \_\_\_\_\_

Date \_\_\_\_\_ Section 18.

1. On the steel parts of the frame, when in place and before the plating was wrought at various times

2nd. On the plating during the progress of rivetting while building

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

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

5th. After the ship was launched

State if she has a Spar Deck \_\_\_\_\_ or Fore-castle \_\_\_\_\_

**General Remarks,** (State quality of workmanship &c.)

Has been built under Special Survey No. 332

Has a doubling plate to Spunkake 18 ins x 1/2 in. and sufficiently high to receive riveting through angle irons on upper deck stringer which plan when submitted was approved by the Committee

Testing Certificate of chain cables produced

In what manner are the surfaces preserved from oxidation? Inside } Red lead oil & Peacocks paint

Ditto ditto Outside }

I am of opinion this Vessel should be Classed 9 A 1

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

Special £ 33 : 4 : -

Certificate (if required) £ : : -

(Signed) John Maxwell

Committee's Minute 11<sup>th</sup> April 18 62

Character assigned 9 years A 1



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