

IRON SHIPS.

1974 Survey held at West Hartlepool Date 27th Jan'y 1860
 the Screw Steamer "Harvest Queen" Master John P. Spencer
 Tonnage Gross 562 Engine Room 100 Register 302 Built at West Hartlepool
 Then Built 1860 By whom built John P. Spencer & Co Owners James & Co. Limited
 Port belonging to London Destined Voyage Mediterranean
 Surveyed Afloat or in Dry Dock Specially surveyed while building No of Order 103

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.
200			25			12		10	90	
Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.	Inches in Ship.	Inches required per Rule.
Floors, Size of Angle Iron, and No. at bottom of Floor Plate	3	2 1/2	7 1/2	4 1/2	3 3/4	2 3/4	7 1/2			
depth and thickness of Floor Plate at mid line	13	x	6 1/2	13	x	7 1/2				
depth and thickness of Floor Plate at Bilge Keelson	3 3/4	x	6 1/2	3 3/4	x	7 1/2				
Size of Reversed Angle Iron, and No. at top of Floor Plate	2 1/2	2	6 1/2	3	2 1/2	6 1/2				
Frames, Size of Angle Iron, single or double	3 3/4	2 3/4	7 1/2	4 1/2	3 3/4	2 3/4	7 1/2			
Reversed Iron, if to every frame or every other frame	2 1/2	2	6 1/2	3	2 1/2	6 1/2				
Beams, Deck (No. 20) double Angle Iron or Bulb Iron with double Angle Iron on top	6	3	7 1/2	2 1/2	2	4 1/2				
depth & thickness of plate amidships	2 1/2	2 1/2	6 1/2							
double or single Angle Iron, on lower edge										
average space between	36	Inches	36	Inches						
if wood (No.) sided & moulded										
Hold, or Lower Deck (No. 29) double Angle Iron or Bulb Iron with double Angle Iron on top	6	3	7 1/2	2 1/2	2	4 1/2				
depth & thickness of plate amidships	2 1/2	2 1/2	6 1/2							
double or single Angle Iron, on lower edge										
average space between	every fourth frame		to each frame							
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	2 1/2	3	7 1/2	4 1/4	3 1/4	7 1/2				
Side or Bilge	2 1/2	3	7 1/2	4 1/4	3 1/4	7 1/2				
Number	Two		Two							

Transoms, material Iron plates, if none, in what manner compensated for.

Knight-heads are they free from defects? Bulkheads, No. Four Thickness of 6 1/2 plates
 Hawse Timbers are they free from defects? how secured to the sides of the ship by angle brackets & knees
 size of vertical angle iron and their distance apart 13 x 2 1/2 x 7 1/2 spaced 30 in

The Frames or Ribs extend in one length from Keel to Gunnwale 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 top of bilge to top of bilge.

on the frames, from bilge to Gunnwale on alternate frames.

Keelson, how are the various lengths of plates or angle irons connected? Butts of angle irons shifted & rivetted

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (3/8 in.) diameter averaging (4 in.) from centre to centre of rivet.

Edges from Garboards to upper part of bilge, worked carvel with a lining piece (in.) thick, or clench, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) from centre to centre of rivets.

Butts from Keel to turn of bilge, worked carvel with a lining piece (9/16) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) 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 planksheer, worked carvel with a lining piece (in.) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? Yes

Butts from bilge to planksheers, worked carvel with a lining piece (9/16) thick, or clench, double or single rivetted; rivets (3/4 in.) diameter averaging (3 in.) from centre to centre of rivets. Breadth of laps in double rivetting (4) Breadth of laps in single rivetting (2 1/2)

Planksheer, how secured to the plating of the sides none Explain by sketch, Bolts thro' gunwale plates set up
 Waterway, planksheer and to the Beams if necessary. with screw nuts underneath.

Side trussing breadth and thickness of plates none how secured? none

Deck trussing none Two sets of fore & aft tie plates 9 x 9 1/2

Deck Beams, how secured to the side? Bracket knees rivetted to beams & frames.

Hold or Lower Deck Same as deck.

Paddle none

No. of breasthooks Four crutches Two how are pointers compensated? By plates

What description of iron is used for the angle iron and plate iron in the vessel? Angle Iron, by the Deswent Iron Co.

Plate do. Whittham & Son

Builder's Signature John P. Spencer

2064 Iron

Workmanship. Are the lands or laps of the clenchwork in all cases in breadth at least five times the diameter of the rivets in double rivetted edges and butts, and at least three 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? They do.

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

Do the holes for rivetting plate to frames, lining pieces, or plate to plate, &c., conform well to each other? They do. and are the rivets well and sufficiently countersunk in the outer plate? all thro.

Are there any rivets which either break into or have been put through the seams or butts of the plating? A few in butts.

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

She has **SAILS.**

CABLES, &c.

ANCHORS, and their weights.

N ^o .			Fathoms.	Inches.		N ^o .
1	Fore Sails,	Chain	210	13/0	Bower,	3
1	Fore Top Sails,	Hempen Stream Cable	60	13/16		
1	Fore Topmast Stay Sails,	Hawser	75	3 1/2	Stream,	
1	Main Sails,	Towlines	75	0		
1	Main ^{Fore} Top Sails,	Warps two	75	4 1/2	Kedge,	2
	and <u>other small sails</u>	All <u>new & good</u> quality.		3 1/2		
	<u>as usual.</u>					

Her Standing and Running Rigging New Wire & Hemp sufficient in size and appears good in quality.

She has Two Life Long Boats and Cutter & Skiff.

The present state of the Windlass is New Capstan & Which and Rudder New Pumps Two of Metal new

General Remarks, Statement and Date of Repairs, extent of corrosion (if any) both internally and externally, and condition of rivets.

DATES of Surveys held while building, as per Section 17. { 1st. On the several parts of the frame, when in place, and before the plating was wrought 10th October 1859
2nd. On the plating during the progress of rivetting October to December 1859
3rd. When the beams were in and fastened, and before the decks were laid 11th December 1859
4th. When the ship was complete, and before the plating was finally coated January 1860
5th. After the ship was launched January 1860

Has a raised quarter deck, frames carried to the top height, Plating outside 6 single rivetted at edges, double do. at butts with 3/4 rivets spaced 2 3/4 centre to centre. Plating of deck 3 inch yellow pine fastened with 1/16 nut bolts from the top side.

The frame angle irons & floor plates being small of the rules the same is compensated for by the vessel being plated to the 9 years scale. Bracket knees fitted to alternate frames under hold beam stringers, Double reverse bars fitted in way of bilge & hold stringers in one length. See Committee's Letter of 22nd Sept 1859

Pl. Spruce-p.

In what manner are the surfaces preserved from oxidation? Coated with two coats of paint. Plating

of inside cemented to the height of upper part of bilges.

We are of opinion this Vessel should be classed 6 A 1

The amount of the Fee£ 6 : " : " is received by me,

Special£ 20 : 2 : "

Certificate (if required)£ : " : "

Committee's Minute 31st January 1860

Character assigned A 9 for 6 Years

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Foundation