

3682 IRON SHIPS.

Rec 27/6/64

No. 2301 Survey held at Stockton Date 24th June 18 64
 on the Screw Steamer "Hesperus" Master See Letter from Command, Newcastle
 Tonnage Gross 1031 Engine Room 200 Register 791 Built at Stockton
 when Built 1864 Launched 7th May By whom built M. Pease & Co.
 owned by M. Pease & Co. Port belonging to Not Registered Destined Voyage _____
 Surveyed Afloat or in Dry Dock While Building

	Feet.	Inches.	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor.....	Feet.	Inches.	Power of Engines....	Horse.
Length aloft	233	4/10	31	1/10	21	9/10		140	
Extreme Breadth....									
Distance of Frames or Ribs from moulding edge to moulding edge, at fore and aft } Double across half	21		21						
Floors, Size of Angle Iron, and No. <u>one</u> at bottom of Floor Plate.....	3	3	9/16	5	3	9/16			
„ depth and thickness of Floor Plate at mid line	2 1/2	x	10/16	2 1/2	x	10/16			
„ depth and thickness of Floor Plate at Bilge Keelson	10	x	10/16	10	x	10/16			
Size of Reversed Angle Iron, and No. <u>one</u> at top of Floor Plate..	3 1/2	3	9/16	3 1/2	3	9/16			
„ frames, Size of Angle Iron, single or double..	5	3	9/16	5	3	9/16			
„ „ Reversed Iron, if to every frame or every <u>other</u> frame.....	3 1/2	3	9/16	3 1/2	3	9/16			
„ „ Planks, Deck (N ^o . <u>67</u>) double Angle Iron, Plate, or Bulb Iron	7 1/2	x	7/16	7 1/2	x	7/16			
„ „ double or single Angle Iron, on top edge	2 3/4	2 3/4	5/16	2 3/4	2 3/4	5/16			
„ „ average space between	42	Inches	42	Inches					
„ „ wood (N^o.) sided & moulded									
„ „ Upper Deck (N^o. <u>64</u>)	7 1/2	x	7/16	7 1/2	x	7/16			
„ „ double Angle Iron, Plate, or Bulb Iron	2 3/4	2 3/4	5/16	2 3/4	2 3/4	5/16			
„ „ average space between	42	Inches	42	Inches					
„ „ if wood (N^o.) sided & moulded									
„ „ Paddle, wood, sided and moulded, or if Iron, size of Plate									
„ „ Plate, box, or intercostal	10	x	12/16	4 1/2	x	12/16			
„ „ Angle Irons	5	4 1/2	9/16						
„ „ Double angle iron	5	4 1/2	9/16						
„ „ Material Plate or, if none, in what manner compensated for.									
„ „ heads, and Howe Timbers									

Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with 7/10 (in) rivets, about (8 to 6) apart.

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

„ „ „ on the frames „ „ from bilge to above hold beam stringers & on alternate frames to gunwale

Keelson, how are the various lengths of plates or angle irons connected? butts of plates & angle irons shipped & stepped & rivetted

Plates, Garboard, double or single rivetted to keel & at upper edge, with rivets (1 3/16 ins.) diameter averaging (4 1/2 in.) from centre to centre of rivet.

„ Edges from Garboards to upper part of bilge, worked carvel with a lining piece (in.) thick, or clencher, double or single rivetted; rivets (7/10 in.) diameter, averaging (3 1/2 ins.) from centre to centre of rivets.

„ Butts from Keel to turn of bilge, worked carvel with a lining piece (10 x 1/16) thick, double or single rivetted; rivets (7/10 in.) diameter, averaging (3 1/2 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? no

„ Edges from bilge to sheerstrake, worked carvel with a lining piece () thick, or clencher, 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? no

„ Edge of Sheerstrake, double or single rivetted? Double

„ Butts from bilge to planksheers, worked carvel with a lining piece (9 x 1/10) thick, double or single rivetted; rivets (3/4 in.) diameter averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (5) Breadth of laps in single rivetting (2 3/4)

Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? All Double

Planksheers, how secured to the plating of the sides } Explain by sketch } Gutter waterways
 Waterway „ „ planksheer and to the Beams } if necessary. }

Deck Beams, how secured to the side? Beam ends turned & pieces welded

Hold or Lower Deck „ Same as Deck

Paddle „ „

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

What description of iron is used for the angle iron and plate iron in the vessel? By Hopkin's Co. Builder's Signature
10 Bedlington Road, Newcastle
Canterbury
Stockton

3682 Iron or half

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 rivet 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? Yes and are the rivet holes well and sufficiently countersunk in the outer plate? All through
 Are there any rivets which either break into or have been put through the seams or butts of the plating? A few in butts

How or in what manner of plate tapered away to heads & heels to 1/16, four angle bars inside 3x3x6 plates single riveted at edges double at
 Her Masts, Yards, &c., are in good condition, and sufficient in size and length.

SAILS		CABLES, &c.		ANCHORS, and their weights.	
N ^o .		Fathoms.	Inches.		
2	Fore Sails,	Chain	270	1 1/2	Bower, (Patent Patent) 3 1/2
2	Fore Top Sails,	Keen Stream Cable	190	7/8	Rodgers Patent
2	Fore Topmast Stay Sails,	Hawser	190	0	Stream, 1 9/2
1	Main Sails,	Towlines	90	10	Kedge, 2 4.1
1	Main Top Sails,	Warp	90	6	3.0
and others as usual		All of <u>good</u> quality.	70	4	

Her Standing and Running Rigging Wire Hemp & Manilla sufficient in size and good in quality.
 She has two life Long Boat, two Gigs & Princher
 The present state of the Windlass is Patent Capstan good and Rudder good - Pumps four of Copper & Iron

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

- 1st. On the several parts of the frame, when in place, and before the plating was wrought
 2nd. On the plating during the progress of rivetting
 3rd. When the beams were in and fastened, and before the decks were laid
 4th. When the ship was complete, and before the plating was finally coated
 5th. After the ship was launched

DATES of Surveys held while building, as per Section 17. } Special Survey, No of order 10
 } First Survey 3rd Nov, 1863
 } Last Survey 24th June 1864

An Intercoastal Nelson fitted on each side of middle line in between bilge & centre Keelsons, Plates 20x10/16 Double angle iron top edge 5x4x10/16.

Has a flush deck with house in midships 22 ft long, 22 ft broad.
 Length being within eleven times the Depth Sheertraces necessary to the in thickness for 3/4 the length. See additional longitudinal strengthening in hull plates between bilge & hold stringer & trans.

N. Scarse H^o

In what manner are the surfaces preserved from oxidation? Flat to the upper part of bilge cemented with Portland cement, all other parts coated with paint.

I am of opinion this Vessel should be classed A1
 The amount of the Fee£ 5 : 0 : 0 is received by me,
 Special£ 51 : 11 : 0
 Certificate (if required)£ : : :

J. P. Gladstone

Committee's Minute 28th June 1864

Character assigned B

To have fig 1/11
 27/7/64

