

IRON SHIP

Survey held at Liverpool Date, First Survey Dec 16 1876 Last Survey May 11 1876
 Name of Ship Shakespeare Yard Number 72 Master D. Hughes
 Built at Liverpool When built 1875-76 Launched Apr 10 1876
 By whom built R. & J. Evans Owners E. C. Friend & Co
 Port belonging to Liverpool Destined Voyage O'rydney
 If Surveyed while Building, Afloat, or in Dry Dock. On the building slip and in dry dock

Dimensions of Ship per Register, length, 183-0 breadth, 31-8 depth, 19-2 feet.
 Breadth moulded 31-5 1/2 Depth top of Floors to Upper Deck Beams 19-5 Power of Engines 1 Horse. 1
 No. of Decks with flat laid One No. of Tiers of Beams 2

	Inches in Ship.	16ths in Ship.	Inches in Ship.	16ths in Ship.	Inches in Ship.	16ths in Ship.	Inches in Ship.	16ths in Ship.	Inches in Ship.	16ths in Ship.
KEEL, depth and thickness	8 x 23/8	8 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8
STEM, moulding and thickness	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8
STERN-POST for Rudder do. do.	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8
for Propeller	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8	7 x 23/8
Distance of Frames from moulding edge to moulding edge, all fore and aft	22									
FRAMES, Angle Iron, for 1/2 length amidships	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3
Do. for 1/4 at each end	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3	4 1/2 x 3
REVERSED FRAMES, Angle Iron	3 x 3	3 x 3	3 x 3	3 x 3	3 x 3	3 x 3	3 x 3	3 x 3	3 x 3	3 x 3
DECK BEAMS, depth and thickness of Floor Plate at mid line for half length amidships	25 x 9	21 x 9	21 x 9	21 x 9	21 x 9	21 x 9	21 x 9	21 x 9	21 x 9	21 x 9
thickness at the ends of vessel	15	8-7	10 1/2	8-7	10 1/2	8-7	10 1/2	8-7	10 1/2	8-7
depth at 1/2 the half-bdth. as per Rule	15	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
height extended at the Bilges	43	42	42	42	42	42	42	42	42	42
BEAMS, Upper, Spar, or Awning Deck	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6
Single or double Angle Iron, Plate or Tee Bulb Iron	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3
Single or double Angle Iron on Upper edge	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3
Average space	44	44	44	44	44	44	44	44	44	44
BEAM, Main or Middle Deck	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6	7 1/2 x 7 1/6
Single or double Angle Iron, Plate or Tee Bulb Iron	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3
Single or double Angle Iron on Upper edge	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3	7 1/2 x 3
Average space	44	44	44	44	44	44	44	44	44	44
Lower Deck, Hold or Orlop	8 x 8	7 3/4 x 7	7 3/4 x 7	7 3/4 x 7	7 3/4 x 7	7 3/4 x 7	7 3/4 x 7	7 3/4 x 7	7 3/4 x 7	7 3/4 x 7
Single or double Angle Iron, Plate or Tee Bulb Iron	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3
Single or double Angle Iron on Upper edge	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3	8 x 3
Average space	44	44	44	44	44	44	44	44	44	44
Centre line, single or double plate, or Intercoastal, Plates	13 x 10	13 x 10	13 x 10	13 x 10	13 x 10	13 x 10	13 x 10	13 x 10	13 x 10	13 x 10
Plank Plate	10 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10
Bulb Plate to Intercoastal Keelson	10 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10	9 5/8 x 10
Angle Irons	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
Double Angle Iron Side Keelson	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
Side Intercoastal Plate	18 x 6	18 x 6	18 x 6	18 x 6	18 x 6	18 x 6	18 x 6	18 x 6	18 x 6	18 x 6
do Angle Irons	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
Attached to outside plating with angle iron	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
BILGE Angle Irons	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
do Bulb Iron	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
do Intercoastal plates riveted to plating for length	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
BILGE STRINGER Angle Irons	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
Intercoastal plates riveted to plating for length	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
SIDE STRINGER Angle Irons	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2	4 1/2 x 3 1/2
Transoms, material. Knight-heads. Hawse Timbers.	Iron frames and plates									
Windlass	Green heart									
Pall Bitt	Iron box 13x13x6/16 plates									

The FRAMES extend in one length from Keel to gunwale Riveted through plates with 3/4 in. Rivets, about 5 apart.
 The REVERSED ANGLE IRONS on floors and frames extend across middle line to Hold, Beam Stringer and to gunwale alternately
 KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? yes And butts properly shifted? yes
 PLATING. Garboard, double riveted to Keel, with rivets 1/8 in. diameter, averaging 5 ins. from centre to centre.
 Edges of Garboards and to upper part of Bilge, worked clench, double riveted; with rivets 7/8 in. diameter, averaging 3 1/4 ins. from centre to centre.
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 7/8 in. diameter averaging 3 1/2 ins. from centre to centre.
 Butts of two Strakes at Bilge for 1/2 length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.
 Edges from bilge to Main Sheerstrake, worked clench, double or single riveted; with rivets 3/4 in. diameter, averaging 3 1/4 ins. from cr. to cr.
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets 3/4 in. diameter, averaging 3 1/2 ins. from cr. to cr.
 Edges of Main Sheerstrake, double or single riveted. Upper Sheerstrake, double or single riveted. double.
 Butts of Main Sheerstrake, treble riveted for length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 1/2 length amidships.
 Butts of Main Stringer Plate, treble riveted for length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for 1/2 length.
 Breadth of laps of plating in double riveting 4 1/2 to 5 1/4 Breadth of laps of plating in single riveting 4 1/2 to 5 1/4
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? double and part treble amidships
 how secured to Beams iron putter waterways and from beams
 of the various Decks, how secured to the sides? iron knee plates forced on and riveted to frames No of Breasthooks, and Crutches, to all fore and aft strakes and ribs
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? hatched Hopkine middlesbrough and plates
 Manufacturer's name or trade mark, Bansfield
 The above is a correct description.
 Builder's Signature, R. Evans & Co Surveyor's Signature, J. T. Light

IRON 466-0426

Workmanship. Are the butts of plating planed or otherwise fitted? *planed*
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*
Are the fillings between the ribs and plates solid single pieces? *Solid single pieces.*
Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *yes.*
Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *yes*
Do any rivets break into or through the seams or butts of the plating? *very few and in butts only.*

Masts, Bowsprit, Yards, &c., are *iron & pine* in *good* condition, and sufficient in size and length. If of Iron
Scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constr
the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit, *Bowsprit of iron two plates in the*
Length outside of Bow 18 feet - 6". Diameter 24" plates 9/16" throughout
4 angle irons of 3 1/2 x 3 x 1/16. Seams simple riveted. Butts all
riveted, except at heel - double riveted. Butt straps fitted on
and a doubling plate in way of wedging 10 feet long fore and

NUMBER for EQUIPMENT 13566

	Fathoms.	Inches.	Test per Certificate.	Length & Size req'd per Rule	Test req'd per Rule.	ANCHORS, No.	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.
SAILES.									
Fore Sails,	135	1 10/16	47 1/2 Tons	135	47 1/2	2	26-0-0	25-12-2-0	25 1/2
Fore Top Sails,	135	1 10/16	66 1/2	135	66 1/2	1	25-3-4	25-10-1-0	25 1/2
Fore Topmast Stay Sails	90	7/8	Lloyd's Vessel	90	7/8	1	22-2-12	22-16-3-0	21 3/4
Main Sails,	90	10	and signed C. G. Lewis	90	10				
Main Top Sails,	90	8		90	8				
CABLES, &c.									
Chain 1440									
Ham Strm Cbl	90	7/8		90	7/8				
Hawser ...	90	10		90	10				
Towlines ...	90	8		90	8				
Warp ...	90	5 1/2		90	5 1/2				
quality good									

Standing and Running Rigging *wire & Hemp* sufficient in size and *good* in quality. She has *1* *Large* Long Boat and *3* others

The Windlass is *good* Capstan *20* iron and Rudder *good* Pumps *Two* iron pump in main and a *small* one in fore

Engine Room Skylights. How constructed? *How secured in ordinary weather?*

What arrangements for deadlights in bad weather?

Coal Bunker Openings. How constructed? *How are lids secured?*

Height above deck?

Scuppers, &c. - What arrangements for clearing upper deck of water, in case of shipping a sea? *2* Scuppers and *three* ports in *iron* bulwark plating on both sides.

Cargo Hatchways. How formed? *iron plates 7/16" thickness and 9/16" form? and app.*

State size Main Hatch *14' 8" x 10-3, 1 1/2" above deck* Fore hatch *5' 5" x 16" above deck* Quarter hatch *5' 5" x 2 feet above deck*

If of extraordinary size, state how framed and secured? *not of extraordinary size*

What arrangement for shifting beams? *iron cross coming in main hatch way.*

Hatches, If strong and efficient? *strong and good.*

Order for Special Survey No. *622*

Date *18th Oct/75*

Order for Ordinary Survey No.

Date

No. *72* in builder's yard.

DATES of Surveys held while building as per Section 18.

- 1st. On the several parts of the frame, when in place, and before the plating was wrought
- 2nd. On the plating during the process of riveting
- 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 or cemented.
- 5th. After the ship was launched and equipped

iron in masts tested and vessel under Sp. Survey the whole time of build

General Remarks,

Masts of iron two plates in the Round Length and 43-2" diameter 26" plates 9/16, and head 5/16, 3 ang. in each of 3 1/2 x 3 x 1/16. Butt straps on the outside and in all respects the same as the bowsprit. - Fore and Main yards of iron 71 feet long, 17" dia, plates 5. 4. 3 with two angle-irons in each of 3 x 2 1/2 x 5/16, lapped edges and butts. edges simple riveted, butts treble except at ends where they are double riveted. plates marked Bousfield, and found good by testing, Lizen mast and other spars of pitch pine, and black spruce, all efficient and of good quality. - Workmanship in this vessel good and being fully equipped, is, in my opinion, eligible for the Class recommended below.

State if one, two or three decked vessel, or if spar or arwing decked, and lengths of poop, forecastle or raised quarter deck, or of double or part a
Raised quarter deck 47 feet long, forecastle 25 feet long.
How are the surfaces preserved from oxidation? Inside *Portland Cement and paint* Outside *by paint*

I am of opinion this Vessel should be Classed **100 A*.

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

Special ... £ 38 : 6 : " 2/6 1876

Certificate ... *Gratis* of

(Travelling Expenses)

(if any) £ *none.*

Committee's Minute *2nd June* 1876

Character assigned *100 A*

A & C P B S S Cem 76 W. R.

J. J. Light

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