

# IRON SHIP.

1640

No. 3638 Survey held at Stockton Date, First Survey 1st Jan<sup>r</sup> Last Survey May 29<sup>th</sup>  
On the Iron Steamer "Beal" Master Bass

**TONNAGE** under Tonnage Deck } 655.28  
 Ditto of Third, Spar, or Awning Deck } 3.86  
 Ditto of Poop, or Raised Or. Dk. } 119.18  
 Ditto of Houses on Deck } 4.49  
 Ditto of Forecastle } 47.30  
 Gross Tonnage } 829.11  
 Less Crew Space } 30.00  
 Less Engine Room } 499.11  
 Register Tonnage as cut on Beam } 299.99

**ONE, OR TWO DECKED, THREE DECKED VESSEL.**  
**SPAR, OR AWNING-DECKED VESSEL.**  
**HALF BREADTH** (moulded)... .. 18' 2"  
**DEPTH** from upper part of Keel to top of Upper Deck Beams 16' 4 1/2"  
**GIRTH** of Half Midship Frame (as per Rule) ... .. 2' 5"  
**1st NUMBER** ... .. 15  
**1st NUMBER, if a THREE-DECKED VESSEL** ... .. 15  
**LENGTH** ... .. 218-9  
**2nd NUMBER** ... .. 12450  
**PROPORTIONS**—Breadths to Length ... .. 1/2 1/8  
**Depths to Length**—Upper Deck to Keel ... .. 13 6 1/4  
 Main Deck ditto ... ..

Built at Stockton  
 When built 1846 Launched 25<sup>th</sup>  
 By whom built Pearse & Co  
 Owners General Steam Navigation Co  
 Port belonging to London  
 Destined Voyage Rotterdam  
 Surveyed while Building, Afloat, or in Dry Dock

PLANS CASE

**LENGTH** on deck as per Rule ... 220' 9" **BREADTH**—Moulded... 28' 5" **DEPTH** top of Floors to Upper Deck Beams ... 16' 4 1/2" **Feet. Inches.** 15' 0" **Power of Engines** ... 135 **Horse.** 135 **Nº. of Decks with flat laid** two **Nº. of Tiers of Beams** two

Dimensions of Ship per Register, length, 220.1 breadth, 28.5 depth, 16.8

	Inches in Ship.			Inches per Rule.		
	Inches.	Inches.	16ths.	Inches.	Inches.	16ths.
<b>KEEL</b> , depth and thickness ... ..	8	2 3/8	8	2 3/8	8	2 3/8
<b>STEM</b> , moulding and thickness... ..	8	2 3/8	8	2 3/8	8	2 3/8
<b>STERN-POST</b> for Rudder do. do. ... ..	8	2 3/8	8	2 3/8	8	2 3/8
for Propeller ... ..	8	2 3/8	8	2 3/8	8	2 3/8
Distance of Frames from moulding edge to moulding edge, all fore and aft ... ..	22			22		
<b>FRAMES</b> , Angle Iron, for 1/2 length amidships ... ..	3 1/2	3	5/16	3 1/2	3	5/16
Do. for 1/4 at each end ... ..	3 1/2	3	5/16	3 1/2	3	5/16
<b>REVERSED FRAMES</b> , Angle Iron ... ..	3	2 1/2	5/16	3	2 1/2	5/16
<b>FLOORS</b> , depth and thickness of Floor Plate at mid line for half length amidships ... ..	16 1/2		1/16	16 1/2		1/16
thickness at the ends of vessel ... ..	16 1/2		1/16	16 1/2		1/16
depth at 1/4 the half-bdth. as per Rule ... ..	8 1/4		1/16	8 1/4		1/16
height extended at the Bilges... ..	33			33		
<b>BEAMS, Upper, Spar, or Awning Deck</b> Single or d'ble Ang. Iron, Plate or Tee Bulb Iron } Single or double Angle Iron on Upper edge ... ..	4	3	1/16	4	3	1/16
Average space... ..	44			44		
<b>BEAMS, Main, or Middle Deck</b> Single or d'ble Ang. Iron, Plate or Tee Bulb Iron } Single, or double Angle Iron, on Upper Edge ... ..	4	3	1/16	4	3	1/16
Average space... ..	44			44		
<b>BEAMS, Lower Deck, Hold, or Orlop</b> Single or d'ble Ang. Iron, Plate or Tee Bulb Iron } Single or double Angle Iron on Upper Edge ... ..	4	3	1/16	4	3	1/16
Average space... ..	44			44		
<b>KEELSONS</b> Centre line, single or double plate, box, or Intercostal, Plates ... ..	13		1/16	13		1/16
" Rider Plate ... ..	10		1/16	10		1/16
" Bulb Plate to Intercostal Keelson ... ..	10		1/16	10		1/16
" Angle Irons ... ..	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
" Double Angle Iron Side Keelson ... ..	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
" Side Intercostal Plate ... ..	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
" do. Angle Irons ... ..	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
" Attached to outside plating with angle iron	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
<b>BILGE</b> Angle Irons ... ..	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
" do. Bulb Iron... ..	4		1/16	4		1/16
" do. Intercostal plates riveted to plating for length	see sketch			see sketch		
<b>BILGE-STRINGER</b> Angle Irons ... ..	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
Intercostal plates riveted to plating for length.	opposite			opposite		
<b>SIDE STRINGER</b> Angle Irons ... ..	4 1/2	3 1/2	1/16	4 1/2	3 1/2	1/16
Transoms, material. Knight-heads. Hawse Timbers. <u>Plating &amp; Angles</u>						
Windlass <u>Emerson Walker Steam</u> <u>Pal Batt</u>						

**Flat Keel Plates**, breadth and thickness ... ..  
**PLATES** in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied 2 strakes 1/2 ft. up part of Bilge to lr. edge of Sh'rstrake  
 Main Sheerstrake, breadth and thickness of doubling at Sh'rstrake, & length applied from Main to Upr. or Spar Dk. Sh'rstrake. Upr. or Spar Dk Sh'rstrake, breadth & thickness  
 Butt Straps to outside plating, breadth & thickness  
 Lengths of Plating ... ..  
 Shifts of Plating, and Stringers... ..  
 Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness...  
 Angle Iron on ditto ... ..  
 Tie Plates fore and aft, outside Hatchways ...  
 Diagonal Tie Plates on Beams No. of Pairs,  
 Planksheer material and scantling ... ..  
 Waterways do. do. ... ..  
 Flat of Upper Deck do. do. ... ..  
 How fastened to Beams ... ..  
 Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness ... ..  
 Is the Stringer Plate attached to the outside plating?  
 Angle Irons on ditto, No. ... ..  
 Tie Plates, outside Hatchways ... ..  
 Diagonal Tie Plates on Beams, No. of pairs  
 Waterways materials and scantlings ... ..  
 Flat of Middle Deck do. do. ... ..  
 How fastened to Beams ... ..  
 Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ... ..  
 Is the Stringer Plate attached to the outside plating? Yes  
 Angle Irons on ditto, No. ... ..  
 Stringer or Tie Plates, outside Hatchways ... ..  
 Flat of Lower Deck ... ..  
 Ceiling betwixt Decks, thickness and material... in hold do. do. ... ..  
 Main piece of Rudder, diameter at head ... .. do. at heel ... ..  
 Can the Rudder be unshipped afloat? Yes  
 Bulkheads No. Four Thickness of 1/2  
 Height up Upper Deck  
 How secured to sides of ship Double Frames  
 Size of Vertical Angle Irons 2, 2 1/2, 3 and distance apart 30 ins.  
 Are the outside Plates doubled two spaces of Frames in length? Yes

The **FRAMES** extend in one length from Keel to Gunwale Riveted through plates with 3/4 in. Rivets, about 10  
 The **REVERSED ANGLE IRONS** on floors and frames extend across middle line to Hold Beam Straps and to Gunwale  
**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 1/2 ins. from centre to centre.  
**Edges of Garboards** and to upper part of Bilge, worked clencher, double riveted; with rivets 3/8 in. diameter, averaging 3 3/8 ins. from centre to centre.  
**Butts from Keel to turn of Bilge**, worked carvel, double riveted; with rivets 1/8 in. diameter averaging 3 3/8 ins. from centre to centre.  
**Butts of Three Strakes** at Bilge for one-half length, treble riveted with Butt Straps 1/16 thicker than the plates they connect.  
**Edges from bilge to Main Sheerstrake**, worked clencher, double or single riveted; with rivets 3/8 in. diameter, averaging 3 3/8 ins. from cr. to cr.  
**Butts from Bilge to Main Sheerstrake**, worked carvel, double riveted; with rivets 3/8 in. diameter, averaging 3 3/8 ins. from cr. to cr.  
**Edges of Main Sheerstrake**, double or single riveted. **Upper Sheerstrake**, double or single riveted.  
**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 1 1/4 Breadth of laps of plating in single riveting 1  
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted?  
 Waterway, how secured to Beams Watten (Explain by Sketch, if necessary.)  
 Beams of the various Decks, how secured to the sides? Ends turned & welded No. of Breasthooks, Four Crutches,  
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? good  
 Manufacturer's name or trade mark, Powells & Co Stockton Malleable Iron  
 The above is a correct description.  
 Builder's Signature, W. Pearse & Co Surveyor's Signature, W. R. ...  
 Surveyor to Lloyd's Register of British

Are the butts of plating planed or otherwise fitted? Planed 16457 Iron  
 carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? Yes  
 between the ribs and plates solid single pieces? solid 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? Some in butts

Masts, Bowsprit, Yards, &c., are of Pine in good condition, and sufficient in size and length. If of Iron or Steel give 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 riveting, quality of Materials, and if stamped with Maker's name.  
 State also Length and Diameter of Lower Masts and Bowsprit Main Mast 52' x 16 1/2" Iron Mast 60' x 16 1/2"

No.	SAILS.	CABLES, &c.	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.	Test req'd per Rule.
	Fore Sails,	Chain	240	1 1/2	34/8	240	34/8		3	18-3-0	19-13-0-1st	18-0-0	19-0-0-0
	Fore Top Sails,	Anchor Wear			Commission					18-1-6	19-6-2-4	18-0-0	19-0-0-0
	Fore Topmast Stay Sails	Hamper Strm Cbl	90	1 1/2	34/8	15/16	34/8	Same as		16-1-0	17-11-3-1st	15-1-6	16-1-0
	Main Sails,	Hawser	90	8	34/8	10		Chain case				8-0-0	12-2-24
	Main Top Sails,	Towlines	90	10				Stream				8-0-0	
	and	Warp	80	10				Kedges				8-0-0	
	Standing and Running Rigging	Wires	900	5								8-0-0	

The Windlass is good Capstan good and Rudder good Pumps of Metal, good  
 Engine Room Skylights.—How constructed? 5/16 Iron casing, oak skylight How secured in ordinary weather? Bulls eyes  
 What arrangements for deadlights in bad weather? Bulls eyes  
 Coal Bunker Openings.—How constructed? Bricks How are lids secured? blinds Height above deck? flush under  
 Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? four scuppers & four ports, damage house  
 Cargo Hatchways.—How formed? Iron casing 5/16 inch  
 State size Main Hatch Forehatch 14' x 8' x 9' Quarterhatch 11' x 9'  
 If of extraordinary size, state how framed and secured? —  
 What arrangement for shifting beams? brass plate 5/16 full with double angles 2 1/2 x 2 1/2 x 5/16 with wood lining  
 Hatches, If strong and efficient? Yes

For Special Survey No.	Date	For Ordinary Survey No.	DATES of Surveys held while building as per Section 18.	1st.	2nd.	3rd.	4th.	5th.
558	June 1896			On the several parts of the frame, when in place, and before the plating was wrought	On the plating during the process of riveting	When the beams were in and fastened, and before the decks were laid...	When the ship was complete, and before the plating was finally coated or cemented..	After the ship was launched and equipped
				Jan: 11, 21, 25, 31	Feb: 2, 4, 10, 14, 15, 18, 22, 25, 29	March: 2, 3, 8, 9, 14, 16, 17, 21, 24, 30	April: 3, 5, 11, 13	19, 21, 25, 26, 27, May: 1, 2, 9, 12, 13, 14, 23, 26, 29, 1896

General Remarks (State quality of workmanship, &c.) Workmanship and Materials good  
 Poop: Beams 5" x 3" x 5/16, Stringer on d<sup>l</sup> 2 1/2" x 1/2", angles 3 1/2" x 3" x 5/16, Side plate 5" x 1/2", Plating 5/16. Deck 3" G. P. fastened with 5/16 G. S. R. B. Frames 6" upright  
 Forecastle: Beams 5" x 3" x 5/16, three Beams rolled, Stringer on d<sup>l</sup> 2 1/2" x 1/2", angles 3 1/2" x 3" x 5/16, Side plates 5" x 5/16, Deck 3" G. P. Plating 5/16  
 Main Deck: Beams in Fore & After Heads: — Side plate 5" x 5/16, angles 3 1/2" x 3" x 5/16, web plates 5/16 angles on d<sup>l</sup> 2 1/2" x 2 1/2" x 5/16, Side plating 5/16  
 A Decree of the Letter dated 23<sup>rd</sup> Dec<sup>r</sup> 1896

State if one, two, or three, decked vessel, or if spar, or awning decked; and the lengths of poop, fore-castle, or raised quarter-deck, and the length of double, or part double bottom.  
 How are the surfaces preserved from oxidation? Inside benzene & Paris Outside Paint  
 I am of opinion this Vessel should be Classed 100 A 1  
 The amount of the Entry Fee ... £ 5 : : is received by me,  
 Special ... £ 39 : 19 : 3 June 1896  
 Certificate ... : :  
 Minute 6<sup>th</sup> June 1896  
 Signed [Signature]  
 Lloyd's Register Foundation