

IRON SHIP.

No. 3320 Survey held at Middlesboro Date, First Survey 6 January Last Survey 9th June 1894
On the Steamer "Black Watch" Yard Number 108 Master L. G. Bates

TONNAGE under Tonnage Deck 1348.18 **ONE, OR TWO DECKED, THREE DECKED VESSEL.** Built at Middlesboro
Ditto of Third, Spar, or Lining Deck. 19.25 **HALF BREADTH** (moulded) 16.82 When built 1894 Launched 18th April 94
Ditto of Poop, or Raised Or. Dk. 13.94 **DEPTH** from upper part of Keel to top of Upper Deck Beams 24.45 By whom built Railton Dixon & Co
Ditto of Houses on Deck 13.94 **GIRTH** of Half Midship, Frames (as per Rule) 31.25 Owners L. C. Goring & Co
Ditto of Forecastle 13.94 **1st NUMBER** 48.82 Port belonging to Bandiff
Gross Tonnage 1394.43 **1st NUMBER, if a THREE-DECKED VESSEL** 41.82 Destined Voyage Bandiff
Less Crew Space 84.64 **LENGTH** 248.5 **PROPORTIONS**—Breadths to Length Under 8
Less Engine Room 84.18 **2nd NUMBER** 144.44 **Surveyed while Building, afloat, or in Dry Dock.**
Register Tonnage as cut on Beam 905.81 **Lengths to Length—Upper Deck to Keel** 11
Main Deck ditto 14

LENGTH	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH	Feet.	Inches.	Power of Engines	Horse.	Nº. of Decks with flat laid	Nº. of Tiers of Beams
on deck as per Rule	248	10	Moulded	32	9	top of Floors to Upper Deck Beams	23	0	150	150	Two	Three
Do. do. Main Deck Beams												
Dimensions of Ship per Register, length, 250 breadth, 33 depth, 22.9												
KEEL , depth and thickness	9	2 1/2	Inches in Ship.	9	2 1/2	Inches per Rule.						
STEM , moulding and thickness	8 1/2	2 1/2		8 1/2	2 1/2							
STERN POST for Rudder do. do. for Propeller	10	8 1/2		10	8 1/2							
Distance of Frames from moulding edge to moulding edge, all fore and aft	24			24								
FRAMES , Angle Iron, for 1/2 length amidships	4 1/2	3	Inches in Ship.	4 1/2	3	Inches per Rule.						
Do. for 1/2 at each end	4 1/2	3		4 1/2	3							
REVERSED FRAMES , Angle Iron	3	3		3	3							
FLOORS , depth and thickness of Floor Plate at mid line for half length amidships	2 1/2	10		2 1/2	10							
thickness at the ends of vessel	2 1/2	10		2 1/2	10							
depth at 1/2 the half-bdth. as per Rule	1 1/2	10		1 1/2	10							
height extended at the Bilges	4 1/2	10		4 1/2	10							
BEAMS , Upper, Spar, or Avining Deck Single or double Angle Iron, Plate or Tee Bulb Iron	6 1/2	10		6 1/2	10							
Single or double Angle Iron on Upper edge	2 1/2	10		2 1/2	10							
Average space	48			48								
BEAMS , Main or Middle Deck Single or double Angle Iron, Plate or Tee Bulb Iron	8	10		8	10							
Single or double Angle Iron, on Upper Edge	3	10		3	10							
Average space	48			48								
BEAMS , Lower Deck, Hold or Orlop Single or double Angle Iron, Plate or Tee Bulb Iron	8	10		8	10							
Single or double Angle Iron on Upper Edge	3	10		3	10							
Average space	48			48								
KEELSONS Centre line, single or double plate, box, or intercostal, Plates	16	10		16	10							
Rider Plate	9	10		9	10							
Bulb Plate to Intercostal Keelson	9	10		9	10							
Angle Irons	5	10		5	10							
Double Angle Iron Side Keelson	5	10		5	10							
Side Intercostal Plate	5	10		5	10							
do. Angle Irons	5	10		5	10							
Attached to outside plating with angle iron	5	10		5	10							
BILGE Angle Irons	5	10		5	10							
do. Bulb Iron	8	10		8	10							
do. Intercostal plates riveted to plating for length	8	10		8	10							
BILGE STRINGER Angle Irons	5	10		5	10							
Intercostal plates riveted to plating for length	5	10		5	10							
SIDE STRINGER Angle Irons	5	10		5	10							
Transoms, material. Knight-heads. Hawse Timbers.												
Windlass												

The **FRAMES** extend in one length from Keel to gunwale Riveted through plates with 1/8 in. Rivets, about 1/2 apart.
The **REVERSED ANGLE IRONS** on floors and frames extend across middle line to Main Deck 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 1/2 ins. from centre to centre.
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets 1/8 in. diameter, averaging 3 1/2 ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets 1/8 in. diameter averaging 3 1/2 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 3/4 in. diameter, averaging 3 1/2 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.
Butts of Main Sheerstrake, treble riveted for one half length amidships. Butts of Upper or Spar Sheerstrake, treble riveted 1/2 length amidships.
Butts of Main Stringer Plate, treble riveted for 1/2 length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for one half length.
Breadth of laps of plating in double riveting 4 3/4 Breadth of laps of plating in single riveting 4 3/4
Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? Double & Treble
Waterway, how secured to Beams Gutter (Explain by Sketch, if necessary.)
Beams of the various Decks, how secured to the sides? Beam ends turned & bolted No. of Breasthooks, Five Crutches, Four
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Good
Manufacturer's name or trade mark, Hopkins & Co & Jones Bros
The above is a correct description.
Builder's Signature, Railton Dixon Surveyor's Signature, Wm. D. Minniewell

IRON 457-0474

Sailed December 24th 1893
Sailed date
Dec Dec 24th

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 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 Iron 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 Fore Mast 48' x 21" Main Mast 43' x 20"
Plates 1/16 : 5/16 doubled in way of deck for 1' all seams double riveted and butts triple riveted.

129472

Breaking strain applied 60%

NUMBER for EQUIPMENT		Feet.	Inches.	Test per Certificate.	Length & Size req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight. Ex. Stock.	Test per Certificate.	Weight req'd per Rule.	Test req'd per Rule.
N ^o .	SAILS.	CABLES, &c.										
ME	Fore Sails,	Chain	240	1 1/2	44 1/2	44 1/2	Bowers ...	3	26.0.0	25.12.2.0	25.2.0	25.3.0.0
Ship	Fore Top Sails,	(State Machine where Tested, Date, & name of Superintendent.)	240	1 1/2	44 1/2	44 1/2	(State Machine where Tested, Date, and name of Superintendent.)	3	26.1.2.0	25.19.0.0	25.2.0	25.3.0.0
	Fore Topmast Stay Sails	Hamn Strm Cbl	90	1	10 1/2	10 1/2	As Cables March 19th 1894		22.0.0	22.4.0.0	21.2.2.0	22.2.0.0
	Main Sails,	Hawser	90	6	10 1/2	10 1/2	Stream ...	1	10.2.0		10.2.0	
	Main Top Sails,	Towlines ...	90	9 1/2	10 1/2	10 1/2	Kedges ...	2	55.1.0		5.1.0	
		Warp quality <u>good</u>	90	6	10 1/2	10 1/2			12.3.0		2.3.0	

Standing and Running Rigging Wire & Hemp sufficient in size and good in quality. She has two Self Boats and three other

The Windlass is (Salem) good. Capstan Winches and Rudder and Pumps (three of Metal) good

Engine Room Skylights.—How constructed? 6" 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? Iron bonings How are lids secured? Bars & Battens Height above deck? 15"

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? Eight scuppers & eleven ports each side

Cargo Hatchways.—How formed? Iron comings 1/16 : 3/16 thick

State size Main Hatch 19' 6" x 11' Forehatch 14' x 9' Quarterhatch 16' x 10'

If of extraordinary size, state how framed and secured?

What arrangement for shifting beams? centro plates 11' x 8 1/2" double angles 3 1/2 x 3 x 8 1/2 fore & afters T iron 4' x 4' x 8 1/2

Hatches, If strong and efficient? Yes

Order for Special Survey No. <u>417</u>	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	<u>Jan 6th 8th 13th 16th 22nd 24th 31st Feb 4th 10th 12th 18th 20th 27th 29th</u>
Date <u>30th Dec 93</u>		2nd.	On the plating during the process of riveting	<u>14th 20th 25th 29th March 3rd 6th 10th 16th 19th 24th 27th 31st</u>
Order for Ordinary Survey No. <u>108</u>		3rd.	When the beams were in and fastened, and before the decks were laid	<u>20th 25th 27th April 2nd 9th 10th 14th 20th 21st</u>
Date <u>10th</u>		4th.	When the ship was complete, and before the plating was finally coated or cemented	<u>24th May 5th 15th 22nd 28th June 2nd 9th 18th</u>
No. <u>108</u> in builder's yard.		5th.	After the ship was launched and equipped	

General Remarks,

covered in forward, height 5 feet, 26 feet long, open space & not measured for tonnage. Frames all run up. Beams 5' x 3 1/2 x 1/16. Stringer 22' x 1/16. Side plate 8' x 1/16. Plating 1/16. Deck 3' 4.5' fastened with 8/16 b. & n. B.

Water Ballast Tanks. — Stange plates 1/16. Angles to 2 1/2' x 3' x 8/16, girders 1/16, angles to d. 2 1/2' x 2 1/2' x 8/16. Three plates 1/16. Edg. of tanks 1/16.

Workmanship & Material good.

Raymond D. Smith

Under Room 18 A. Tank 60'

State if one, two or three decked vessel, or if spar or awning decked, and lengths of poop, forecabin or raised quarter deck, or of double or part double bottom.

How are the surfaces preserved from oxidation? Inside Cement & Paint Outside Paint

I am of opinion this Vessel should be Classed 100 A

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

Special ... £ 58 : 16 : 25th Dec 1894.

Certificate ... : : :

(Travelling Expenses)

(if any) .£

Committee's Minute 3rd July 1894

Character assigned 100 A

Three Decked
JBW
Mc