

For the P, or Awning Dk. **IRON OR STEEL STEAMER.**

No. **43425**

Ship of **Newcastle** Date of completion of Report **8th May 02** Received at London Office **SAT. 10 MAY 1902**  
 Survey held at **Newcastle** Date, First Survey **16th March 1901** Last Survey **30th April 1902**  
 On the **Steamer "Potomac"** Rig **Schooner**

**TONNAGE under Tonnage Deck...**  
 Do. between Tonnage Dk. and 3rd, 4th, Spar or Awning Dk.  
**Total under Upper Dk. 3450.83**  
 Do. of Prop.  
 Do. of Bridge House  
 Do. of Forecasts  
 Do. of Houses on Deck  
 Do. of excess of Hatchways  
 Do. above Crown of Engine Room  
**Gross Tonnage 3618.43**  
 Less Crew Space  
 Crown of  
 OR FEES... **3489.18**  
 Room **1157.90**  
 ation Spaces **34.70**

**SPAR, AWNING OR PART AWNING-DECKED VESSEL,**  
 or a Vessel having a continuous Shade Deck.

**CLASS 100 A1**

**Master Richards**  
**Year of Appointment** (1) As Master in service of owner of present vessel: -18. (2) As Master of this vessel: -1902

**Built at Hallwood-on-Tyne**  
**When built 1902. 4. Launched 22nd March 1902.**  
**By whom built C. S. Swan & Hunter Ltd.**  
**Owners British Maritime Trust Ltd.**  
**Managers**  
**Residence London**  
**Port belonging to West-Heartlepool.**

**Half Breadth (moulded) 22.53**  
**Depth from upper part of keel to top of Main Deck Beams 21.94**  
**Girth of Half Midship Frame (as per Rule) 41.25**  
**1st Number 85.72**  
**Length 346.16**  
**2nd Number 29672**  
**Proportions—Breadths to Length 4.68**  
**Depths to Length—Main Deck to top of Keel 15.77**  
**Destined Voyage Antwerp**  
**If Surveyed while Building, Afloat, or in Dry Dock Yes.**

**on Deck** Feet. Inches. **BREADTH** Feet. Inches. **DEPTH** top of Floors to Spar or Awn. Dk. Beams Feet. Inches. **Power of Horse.** No. of Decks with flat laid **Two**  
 Rule... **346 2** Moulded **45 0 1/4** Do. do. Main Deck Beams **26 3** Engines **18 0** No. of Tiers of Beams **Four**  
 of Ship per Register, Length **345.5** breadth **45.5** depth. **22.53** Spar or Awn. Dk. Moulded depth, ft. **20 ins. 6** To Main Dk. Round up of **12**  
 Main Deck. Beam, Main Dk. **10 ins.**

FRAMING.							FORGINGS AND CASTINGS.							Inches in Ship.			Inches per Rule. Or as Approved.			
														Inches in Ship.			Inches per Rule. Or as Approved.			
Angles, or L or E Bars, for 1/2 length amidships							5/2	3/2	9	5/2	3/2	9	Flat Plate							Plate
at each end									8			8	11 x 6 1/2							11 x 6 1/2
way of Double Bottoms at Solid Floors							3/2	3/2	8.7	3/2	3/2	8.7	11 x 6 1/2							11 x 6 1/2
at intermediate Plats.																				
of Frames from moulding edge to									24			24								
ag edge, all fore and aft									9			9								
ED FRAME, Angles																				
RAMING, depth of girder							6/2	3/2	9.8	6/2	3/2	9.8								
, depth and thickness of Floor Plate							6/2	3/2	9.8	6/2	3/2	9.8								
at mid-line for 1/2 length amidships																				
way of Engines and Boilers									8.9			8.9								
thickness at the ends of vessel									8			8								
depth at 1/2 the half b'dth as per Rule																				
height extended at the Bilges																				
& BRACKETS, in Cell Dble Bottoms							4.2		9	4.2		9								
Distance apart									24			24								
GIRDER, in Double bottom, depth							4.2		10.9	4.2		10.9								
and thickness																				
Angles, Top							4	4	9.8	4	4	9.8								
Bottom							6/2	4/2	9.8	6/2	4	9.8								
RDERS, number and thickness							5/2		8	5/2		8								
Angles							3/2	3/2	8	3/2	3/2	8								
PLATE, depth (exclusive of flange)							3/2		9	3/2		9								
and thickness							3/2		9	3/2		9								
Angles							4	4	9	4	4	9								
BOTTOM PLATING, breadth and thickness of Middle Line Strake							36		20.8	36		10.8								
thickness in Engine and Boiler space									10.11			10.11								
Remainder in Holds									8.7			8.7								
Spar or Awning Deck, Single Angle							10		9	10		9								
Bulb Angle, Plate or Tee Bulb							3/2	3	7.3	3/2	3	7								
cles on upper edge									48			48								
range space									11			11								
Main Deck, Single Angle, Bulb							3/2	3/2	8	3/2	3/2	8								
Angle, Plate or Tee Bulb																				
cles on upper edge																				
range space																				
Lower Deck, Single Angle, Bulb																				
Angle, Plate or Tee Bulb																				
cles on upper edge																				
range space																				
Hold, or Orlop, Plate or Tee Bulb																				
cles on upper edge																				
range space																				
Poop Deck, Angle, Bulb Angle, Plate							7		7	7		7								
Plate or Tee Bulb							3	2 1/2	6	3	2 1/2	6								
Angles on upper edge									48			48								
Average space																				
Bridge Deck, Angle, Bulb Angle, Plate							7		7	7		7								
Plate or Tee Bulb							3	2 1/2	6	3	2 1/2	6								
Angles on upper edge									48			48								
Average space																				
Forecastle Deck, Angle, Bulb Angle, Plate							8		8	8		8								
Plate or Tee Bulb							3	3	6	3	3	6								
cles on upper edge									48			48								
range space																				
In tween Deck, size and spacing							2 1/2	3	48	2 1/2	3	48								
Hold							4 1/4		4 1/4											
Quarter, tween Dks.																				
in Hold																				
AMES, in Fore Body, No. and spacing							22		8	22		8								
br'dth. & thickness																				
of Side Stringers																				
AMES, in E. & B. Space, No. & spacing							22		8	22		8								
br'dth. & thickness																				
AMES, in After Body, No. and spacing																				
br'dth. & thickness																				
of Side Stringers																				
e of Angles or Tee Bars to Web Frames							4	3 1/2	8	4	3 1/2	8								
PLATES to Stringers between																				
frames, depth and thickness																				

FORGINGS AND CASTINGS.							Inches in Ship.			Inches per Rule. Or as Approved.					
							Inches in Ship.			Inches per Rule. Or as Approved.					
KEEL, Bar or Side Plates, depth and thickness							Flat Plate			Plate					
STEM, moulding and thickness							11 x 6 1/2			11 x 6 1/2					
STERN-POST for Rudder do. do.							11 x 6 1/2			11 x 6 1/2					
" " for Propeller							9 1/2			9 1/2					
MAIN PIECE of Rudder, diameter at head							8 1/2 x 6 1/2			8 1/2 x 6 1/2					
do, at heel							8 1/2 x 6 1/2			8 1/2 x 6 1/2					
RUDDER, how constructed							Cast Steel, Single Plate 2 1/2 x 1			2 1/2 x 1					
Can the Rudder be unshipped afloat?							Yes			Yes					
KEELSONS AND STRINGERS.							Inches in Ship.			Inches in Ship.			Inches in Ship.		
							Inches in Ship.			Inches in Ship.			Inches in Ship.		
CENTRE LINE KEELSON, Vertical Plate above															
floors, Through Plate, or Intercoastal Plate															
Rider Plate															
Bulb Plate to Intercoastal Keelson															
Horizontal Plates on Floors															
Angles															
SIDE KEELSON, Angles															
Bulb or Plate above floors, for							Ing.								
Intercoastal Plate, for							length								
Attached to outside plating with Angle															
BILGE KEELSON, Angles															
Bulb or Plate above floors, for							Ing.								
Intercoastal Plate, for							length								
Attached to outside plating with Angle															
BILGE STRINGER Angles															
Bulb Plate, for							length								
Intercoastal Plate, for							length								
Attached to outside plating with Angle															
SIDE STRINGERS Angles															
Bulb or Plate above floors, for							Ing.								
Attached to outside plating with Angle															
Spar, or Awning Deck Stringer Plates,															
breadth and thickness															
Angle on ditto															
Tie Plates, fore and aft, outside Hatchways															
Diagonal Tie Plates, No. of p's.															
Deck * Iron or Steel, for							full								
Wood Deck, Material & thickness															
Main Deck Stringer Plate, breadth & thickness															
Angles on ditto, No.															
Tie Plates, outside Hatchways															
Diagonal Tie Plates, No. of p's.															
Deck * Iron or Steel, for							full								
Wood Deck, Material & thickness															
Lower Deck Stringer Plates, br'dth & thckn's															
Angles on ditto, No.															
Tie Plates, outside Hatchways															
Deck * Material and thickness															
Hold, or Orlop Stringer Plate, br'dth & thckn's															
Angles on ditto, No.															
Tie Plates, outside Hatchways															
Deck, Material and thickness															
Poop Deck Stringer Plate, breadth & thickness															
Angles on ditto															
Tie Plates															
Deck, Material and thickness															
Bridge Deck Stringer Plate, br'dth & thickness															
Angles on ditto															
Tie Plates															
Deck, Material and thickness															
Forecastle Deck Stringer Plate, br'dth & th'kns															
Angles on ditto															
Tie Plates															
Deck, Material and thickness															
If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.															

BULKHEADS.				STIFFENERS.				Single or Double Frames.		Height up.	



PLATING.										RIVETING.										
STRAKES.	AS IN SHIP.						PER RULE OR AS APPROVED.		EDGES.				BUTTS.							
	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.			Inches.	Diam.		Spacing or to cr.	Diam.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	For what Length.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.			Inches.	Diam.	Inches.	Diam.	Inches.	Inches.	Inches.	Inches.	Feet.	
FLAT PLATE KEEL .....	36	21	15	14	13	36	21	13	Double	3 3/4	1 5/8	4 3/4	Treble	1	3 3/4	19 1/2	18	Bottom		
(If Bar Keel, state Riveting)																				
GARBOARD OR A Strake ..	54	14	12	12	14		14	12		5 1/4	7/8	3 3/8			7/8	3 3/8			10 1/2 full	
State actual thickness in way of Double Bottom.	B	42	11	11	9		11	9											9	
C	52	11	11	9			11	9												
D	40 1/2	11	10	10	14			11	9											
E	52	12	9	12	14			12	9											
F	40 1/2	12	9	9	11			12	9											
G	50 1/2	12	9	9	12			12	9											
H	41	12	9	9	12			12	9											
I	52	12	9	9	12			12	9											
J	52	12	9	9	12			12	9											
K	41 1/2	12	9	9	12			12	9											
L	52	12	9	9	12			12	9											
M	44	13	9	9	12	44		13	9											
N	51 1/2	12	9	9				12	9											
O	43	13	9	9		40	12	9	Double	3 1/2	3/4	3	Quadruple		3/4	2 3/4			11 1/2	
P	44 1/2	8	7	12	7			8	7		3 1/4			Double					5	
Q	44	9	4	7				9	7											
DOUBLING OF Flat Plate Keel	Increased 4/16 for 1/2 in. & Garboards increased 1/16 for 1/2 in.																			
Length of Bilges .....	Increased 2/16 for 3/4 in. length & doubled for 20 feet at Bridge ends.																			
Thickness of Sheerstrakes	Increased 2/16 for 3/4 in. length & doubled for 20 feet at Bridge ends.																			
POOP SIDES .....	See Letters P & Q.																			
BRIDGE SIDES .....	See Letters P & Q.																			
FORECASTLE SIDES .....	See Letters P & Q.																			

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c. *Siemens-Martin Steel*  
*Spence, Balcroft & Co., Glasgow, South Shields*  
*Cousens, Sorman Long, Birmingham.*  
*Palmer.*

Spar on Landing (Butts, riveted for half length amidship, Stringer Plate (Straps, single, double or overlapped for full length amidship, Main Stringer (Butts, treble riveted for full length amidship, Plate (Straps, single, double or overlapped for full length amidship, Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? Both, Inner Bottom Plating, riveting of Edges of Double Bottoms, Centre Girder Butts, Treble riveted, Keelson Butts, riveted, Frames, riveted through Plates with 1/8 in. Rivets, about 6 apart, Rivets, state whether Iron or Steel. *Iron*

FRAMES extend in one length from Margin Plate to Heather Deck.  
 REVERSED FRAMES on floors and frames extend from Margin Plate to Spar deck on every frame & alternately to Forecastle.

MASTS, SPARS, &c.										RIVETING.									
LOWER MASTS.	Fore	Main	Mizen	Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates in round.	Seams.	Butts.	Rivets.	Butts.	Rivets.	Butts.	Rivets.	Butts.	Rivets.
						At Partners.	Heel.	Head.	Heel.										
Fore	Steel	18' 2"	19' 2"	18' 2"	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
Main	Steel	18' 2"	19' 2"	18' 2"	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
Mizen	Steel	18' 2"	19' 2"	18' 2"	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
Boysprit.	Pitch Pine.																		
Topmasts, Yards and Remainder of Spars	Pitch Pine.																		
Rigging, Material and Size, Shrouds	Salvage 3 1/2																		
Sails.	One Suit of Fore & Aft Sails, and the following spare sails.																		

EQUIPMENT No. 37191 LETTER W.										ANCHORS.									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.		WEIGHT, STOCK.		TEST, PER CERTIFICATE.		WEIGHT, REQ. BY RULE.		Description of Anchor.	Makers.	Where and when tested and Superintendent.		Number.	Size.	Seams.	Butts.	Rivets.	Butts.
		Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.	Tons. cwt. qrs. lbs.	Tons. cwt. qrs. lbs.	Cwts. qrs. lbs.	Cwts. qrs. lbs.										
667	1st Bower	50	2	0	0	42	13	0	50	0	0	Steel	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
668	2nd "	50	1	14	0	42	12	0	50	0	0	Steel	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
669	3rd "	42	0	14	0	37	15	2	42	2	0	Steel	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
582	Stream	12	0	0	0	14	13	17	2	0	0	Common	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
583	Kedge	6	0	0	0	8	5	0	6	0	0	Common	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
2nd Kedge																			

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Fathoms and Size per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size per Rule.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size per Rule.
				Supplied.	P-r Rule.														
121	270	4 1/2	16	70	17	57	2 1/2	Steel	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"
90	4 1/2	39				90	4 1/2	Steel	18' 2"	19' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"	18' 2"

Boats 2 Lifeboats 24' x 6' 5" x 2' 10"; 2 20' x 5' x 2'; 2 17' x 5' x 2' 10".  
 Pumps, Number 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.  
 Windlass is Commerson, Walker & Thompsons Patent direct steam.  
 Engine Room Skylights. How constructed? Steel, coaming & flaps.  
 What arrangements for deadlights in bad weather? Bulls eyes.  
 Coal Bunker Openings. How constructed? C.S. coaming. How are lids secured? Tarpaulins & battens. Height above deck? 14' 1/2".  
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. 6 Scuppers each side; 8' 2" x 12' 2" each side.  
 Ceiling in Holds, thickness and material 2 1/2" under hatchways. Ceiling 'tween Decks, thickness and material 6' x 2".  
 Cargo Hatchways. How formed? 2 1/2" steel coaming 30' high. Hatches, if strong and efficient? Yes.  
 State size No. 1 Hatch (Forward) 24' x 14'. No. 2 Hatch 24' x 16'. No. 3 Hatch 24' x 16'. No. 4 Hatch 24' x 14'.  
 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch. Two webs & 3 fore and afters to each.  
 No. of Breasthooks 5. No. of Crutches 1. Deep floor.  
 Bulwarks, height above deck and description 50' x 7 1/2' Steel. Main Rail, material and size 1 1/2' x 3 1/2' x 7 1/2' B.A.  
 The above is a correct description.  
 Builder's Signature (here only) *FOR O. S. VAN & HUNTER*  
 Surveyor's Signature *Mr. L. Gilman*  
 Surveyor to Lloyd's Register of British & Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *E 4/5/01*  
*VI. 22/10/00, 23/10/00, 23/3/01, 25/4/02*  
 Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*  
 Is the riveted work properly closed? *Yes.*  
 Are the liners between the frames and plates solid single pieces? *Yes.*  
 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 plating? *a few.*  
 Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes.*  
 General Remarks (State quality of workmanship, &c.) *This vessel has been built in accordance with the Secretary's letters, the approved Plans forwarded herewith and otherwise in general conformity with the Rules for the 100 A1 Spar deck class. She has been strengthened to obtain a minimum freeboard the scantlings being equivalent to the 3 dk requirements of the 185 Rules. The materials & workmanship are of good quality. The decks and tunnel have been tested by hose & flooding with satisfactory results. Pumps & W.T. doors tested. Bulkheads designed, marked and verified. Ceiling (close) only laid under hatchways & over lumber see Owners letter attached. Approved Plans ten in all (Midship section fort 8/5/02) forwarded herewith.*  
*Bullens*

The Surveyor should state the Number of Report and Name of any Sister Vessel.  
 PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 28 ft., R.Q.D. or Break ft., Bridge Dk. 92 ft., F'castle 89 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *The Poop & Bridge deck are not joined.*  
 No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *1 Deck (5th) & Spar Deck (5th) and deep framing.*  
 Official No. *115127*; Signal Letters *A*  
 How are the surfaces preserved from oxidation? Inside *Paint & Cement* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system <i>Cell S.B.</i>									
Where fitted.		Length.	Water Capacity.	Where fitted.		Length.	Water Capacity.		
		Feet.	Tons.			Feet.	Tons.		
Double bottom, aft,		<i>116</i>	<i>281</i>	Fore-peak tank, <i>Not fitted on a Tank</i>					
Double bottom, forward,		<i>148</i>	<i>410</i>	After-peak tank,					
Double bottom, under Engines and Boilers,		<i>38</i>	<i>122</i>	Midship deep tank,					
Double bottom, if under Engines only,				Other tanks, if fitted,					
Double bottom, if under Boilers only.				(If necessary, furnish further information by sketch)					
<i>213</i>									
State whether the above have been tested as required by the Rules <i>Ans: Satisfactory</i>									