

1st 2 Dks., R.C.D.K.,

IRON OR STEEL STEAMER.

No. 11413

THUR. FEB 7 1901

and Pt. Aving. Bk.

State if Report is also sent on the Machinery of the Vessel.

Date of completion of Report 6th February 1901

Port of WEST HARTFPOOL

Survey held at West Hartlepool

Date, First Survey 2nd Sept 1900

Last Survey 28th January 1901

On the Screw Steamer "Armanistan"

Rig Fore Mast Schooner

Master L. A. Bradford

Year of appointment (1) As master in service of owner of present vessel: 1901 (2) As master of this vessel: 1901

Built at West Hartlepool

When built 1900-01 Launched 22nd Dec 1900

By whom built W Gray & Co. Lim.

Owners J. C. Christie & Co. Lim.

Managers (Where necessary to be entered in Reg. Book).

Residence 24 Leadenhall St., London.

Port belonging to Swansea.

Surveyed while Building, Afloat, in Dry Dock Gray's dock

TONNAGE under Tonnage Deck 2123.19
Do. of Poop 65.15
Do. of Raised Qr. 37.52
Do. of Bridge House 25.53
Do. of Forecastle 42.40
Do. of Houses on Deck 3.98
Do. of excess of Hatchways 3.98
Do. above Crown of Engine Room 3.98
Gross Tonnage 2292.77
Less Crew Space 13.68
Less above Crown of Engine Room 3.98
TONNAGE FOR FEES 2228.71
Engine Room 735.29
Navigation Spaces 31.62

ONE OR TWO DECKED VESSEL.

CLASS 100A1

Half Breadth (moulded) 21.41

Depth from upper part of Keel to top of Main Deck Bms. 23.16

Girth of Half Midship Frame (as per Rule) 40.37

1st Number 84.94

Length on deck from after part of stem to fore part of stern post 300.34

2nd Number 255.10

Proportions—Breadths to Length 7.01

Depths to Length—Main Deck to top of Keel 12.96

Destined Voyage Cardiff

Length on Deck as Rule 300 4 Breadth Moulded 42 10 DEPTH, ACTUAL Top of Floors to top of Main Deck Beams 19 10 No. of Decks with Flat laid One No. of Tiers of Beams One Yd. from

Dimensions of Ship per Register, Length, 302.6 breadth, 43.2 depth, 19.8 Moulded Depth, 22 ft. 3 1/2 ins. Round of Beam, Actual 10 1/2 ins.

FRAMING.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	20ths in Ship.
E. Angle, E. Bars, for 1/2 length amidships	8 1/2	3	11	8 1/2	3	11
for 1/2 at each end	"	"	10	"	"	10
in way of Double Bottoms at Solid Floors.	3 1/2	3 1/2	8.7	3 1/2	3 1/2	8.7
at intermediate Plats	"	"	"	"	"	"
ance of Frames from moulding edge to building edge, all fore and aft	7 1/4	"	"	7 1/4	"	"
ERSED FRAME, Angles	3 1/2	3 1/2	7	3 1/2	3 1/2	7
P FRAMING, depth of girder	8 1/2	"	"	"	"	"
ORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	40	"	"	40	"	"
in way of Engine and Boilers	From 9 1/6	"	"	From 9 1/6	"	"
thickness at the ends of vessel	"	"	"	"	"	"
depth at 1/2 the half breadth, as per Rule	"	"	"	"	"	"
height extended at the Bilge	"	"	"	"	"	"
ORS & BRACKETS, in Cell Dble Bottoms	"	"	"	"	"	"
Distance apart	24	"	"	24	"	"
RE GIRDER, in Double Bottom, depth and thickness	40	"	10	40	"	10
Angles, Top	4	4	9	4	4	9
Bottom	6 1/2	4	9	6 1/2	4	9
GIRDERS, number on each side & thickness	One	"	"	One	"	"
Angles	3 1/2	3 1/2	7	3 1/2	3 1/2	7
IN PLATE, depth (exclusive of flange) and thickness	30	"	9	30	"	9
Angles to Outside Plating	3 1/2	3 1/2	8	3 1/2	3 1/2	8
R BOTTOM PLATING, breadth and thickness of Middle Line Strake	From 48	"	9 1/6	From 48	"	9 1/6
thickness in Engine and Boiler space	From 7 1/6	"	"	From 7 1/6	"	"
Remainder in Holds	From 6 1/6	"	"	From 6 1/6	"	"
S, Main and Raised Quarter Deck, Angle, Bulb Angle, Plate on Tee Bulb	8	3	11	8	3	11
Angles on Upper Edge	"	"	"	"	"	"
Average space	24	"	"	24	"	"
S, Lower Deck, Single Angle, Bulb Angle, Plate on Tee Bulb	"	"	"	"	"	"
Angles on Upper Edge	"	"	"	"	"	"
Average space	"	"	"	"	"	"
S, Hold, Plate on Tee Bulb	"	"	"	"	"	"
Angles on Upper Edge	"	"	"	"	"	"
Average space	"	"	"	"	"	"
S, Poop Deck, Angle, Bulb Angle, Plate on Tee Bulb	7 1/2	3	10	7 1/2	3	10
Angles on Upper Edge	"	"	"	"	"	"
Average space	48	"	"	48	"	"
S, Bridge or Deck House Deck, Angle, Bulb Angle, Plate on Tee Bulb	6	3	8	6	3	8
Angles on Upper Edge	"	"	"	"	"	"
Average Space	24	"	"	24	"	"
S, Forecastle Deck, Angle, Bulb Angle, Plate on Tee Bulb	8 1/2	"	8	8 1/2	"	8
Angles on Upper Edge	3	3	6	3	3	6
Average space	48	"	"	48	"	"
S, In 'tween Decks, Size and Spacing	2 1/4 - 4 ft.	"	"	2 1/4 - 4 ft.	"	"
Hold	4 - 4 ft.	"	"	4 - 4 ft.	"	"
Quarter, 'tween Dks.,	"	"	"	"	"	"
in Hold	"	"	"	"	"	"

WEB FRAMES, In Fore Body, No. and Spacing

" " " Brdth. & Thickness

" " " No. of Side Stringers

WEB FRAMES, In E. & B. Space, No. & Spacing

" " " Brdth. & Thickness

WEB FRAMES, In After Body, No. and Spacing

" " " Brdth. & Thickness

" " " No. of Side Stringers

" " " Size of Angles or Tee Bars to Web Frames

BRACKET PLATES to Stringers between Web Frames, Depth and Thickness

Deep Framing Throughout

One web frame each side in Machinery space.

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	20ths in Ship.
KEEL, Bar or Side Plates, depth and thickness	10 x 2 1/4	"	"	10 x 2 1/4	"	"
STEM, moulding and thickness	10 x 6	"	"	10 x 6	"	"
STERN-POST for Rudder do. do.	10 x 6	"	"	10 x 6	"	"
for Propeller	8	"	"	8	"	"
MAIN PIECE of Rudder, diameter at head	6	"	"	6	"	"
do. at heel	"	"	"	"	"	"
RUDDER, how constructed Built rudder, Single plate.	"	"	"	"	"	"
Can the Rudder be unshipped afloat?	Yes.	"	"	"	"	"
KEELSONS AND STRINGERS.	"	"	"	"	"	"
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 length	"	"	"	"	"	"
Intercoastal Plate for length	"	"	"	"	"	"
Attached to outside plating with Angle	"	"	"	"	"	"
BILGE KEELSON, Angles	"	"	"	"	"	"
Bulb or Plate above floors for length	"	"	"	"	"	"
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 Intercoastal Plate for length	"	"	"	"	"	"
Attached to outside plating with Angle	"	"	"	"	"	"
Main and Raised Quarter Deck Stringer Plate, breadth and thickness	5 1/4	10	44	10	"	"
Angle on ditto	4 1/2 x 4 1/2	10	4 1/2 x 4 1/2	10	"	"
Plates fore & aft, outside Hatchways	One 2 1/6 in thickness	"	"	"	"	"
Diagonal Tie Plates on Bms, No. of Pairs	"	"	"	"	"	"
Main Dk* Iron or Steel for whole length	"	"	"	"	"	"
P. Q. Dk* Iron or Steel for whole length	"	"	"	"	"	"
Wood Deck, Material & thickness	Corner plates at hatchways	"	"	"	"	"
Lower Deck Stringer Plate, breadth and thickness	"	"	"	"	"	"
Angles on ditto, No.	"	"	"	"	"	"
Tie Plates, outside Hatchways	"	"	"	"	"	"
Deck* Material and thickness	"	"	"	"	"	"
Hold Stringer Plate	"	"	"	"	"	"
Angles on ditto, No.	"	"	"	"	"	"
Poop Deck Stringer Plate, breadth & thickness	32	6	32	6	"	"
Angle on ditto	3 x 3	7	3 x 3	7	"	"
Tie Plates	10	7	10	7	"	"
Deck, Material and thickness	48	3	48	3	"	"
Bridge Deck Stringer Plate, breadth & thickness	Iron 5 1/6	Iron 5 1/6	"	"	"	"
Angle on ditto	3 1/2 x 3 1/2	8	3 1/2 x 3 1/2	8	"	"
Tie Plates	"	"	"	"	"	"
Deck, Material and thickness	Iron 5 1/6	Iron 5 1/6	"	"	"	"
Forecastle Deck Stringer Plate, breadth & thickness	32	6	32	6	"	"
Angle on ditto	3 1/2 x 3 1/2	7	3 1/2 x 3 1/2	7	"	"
Tie Plates	"	"	"	"	"	"
Deck, Material and thickness	RR 3	"	"	"	"	"

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

BULKHEADS.	Number.	Thickness.	STIFFENERS.		Single or Double Frames.	Height up.
			Horizontal.	Vertical.		
W.T. BULKHEADS	5	5	7-6	7-6	48	Up to 48
PARTITION	1	1	7-6	7-6	48	Up to 48
LONGITUDINAL						
Are the outside Plates doubled two spaces of Frames in length?						Diamond lines
Are the Sluice Valves and Watertight Doors in efficient working order?						Yes

	PLATING.				AS IN SHIP.		PER RULE OR AS APPROVED.		EDGES.				RIVETING.				BUTTS.			
	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.	Breadth of Lap.	Diam.	Spacing or top.	Double or Treble and for what Length.	RIVETS.		STRAINS.		LAPPED.		
STRAKES.	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Inches.	Inches.	Inches.	Inches.	Diam.	Spacing or top.	Diam.	Spacing or top.	Breadth.	Thickness.	Breadth.	For what Length.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Feet.
FLAT PLATE KEEL.....	36	16	12	12	36	16	Double	6	1	4	2 1/2	1	3 1/2	19	20					
CARPONS or A Strake..	36	12	11	11	36	12	Double	6	1	4	2 1/2	1	3 1/2	19	20					
State actual thickness in way of Double Bottom.																				
B "		11	9	9		11							4 R							9 3/4
C "		10	9	9		10														12 3/4
D "		12	9	9		12														"
E "		11	9	9		11														"
F "		12	9	9		12							3 R							9 3/4
G "		11	9	9		11														"
H "		13	9	9		13														"
J "		15	9	9		15							1	3 1/2						10 1/2 3/4
K "		17	10	10		17														"
SHEER L "	43	17	10	10	43	17														"
M "																				"
N "																				"
O "																				"
P "																				"
DOUBLING OF Flat Plate Keel																				
Length and thickness of Sheerstrake																				
POOP SIDES																				
BRIDGE SIDES																				
FORECASTLE SIDES																				
LENGTHS OF PLATING.....																				
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, outside Plating, &c.? <i>Steel - Corbett & S.P.C.</i>																				
<i>Iron - Dorman Long & Co. S.D. & C.</i>																				
Has the Steel been tested as required by the Rules? <i>Yes</i>																				
FRAMES extend in one length from <i>middles line</i> to <i>tank side & thence to gunwale</i>																				
REVERSED FRAMES on floors and frames extend from <i>middle line to tank side. Double in tank in 27 B space.</i>																				
<i>Alternately to forecastle deck in forecastle. All to upper deck in after peak.</i>																				
MASTS, SPARS, &c.																				
LOWER MASTS... Fore Main Mast Material Total length At Partners Heel Hounds Head No. of Plates in round ANGLES Number Size Seams Butts Riveting																				
<i>Fore Main Mast Steel 67.2 20 x 7/8 16 x 7/8 16 x 7/8 200 1 1 Single Butts</i>																				
<i>Main Mast Steel 59.6 20 x 7/8 16 x 7/8 16 x 7/8 200 1 1 Single Butts</i>																				
<i>Topmasts, Yards and Bommies of Spars Wood topmasts (Cedar)</i>																				
<i>Rigging, Material and Size, Shrouds 3/4" gal. iron wire Stays 1/2" gal. iron wire</i>																				
<i>Sails Suit of 2000 yds Sails had the following spars</i>																				
EQUIPMENT No. <i>26820</i> LETTER <i>S</i> TONNAGE FOR TRAWLERS U.Dk. ANCHORS.																				
Number of Certificate Anchors Weight, Ex Stock Weight of Stock Test, Per Certificate Weight Required by Table 22 Description of Anchor Makers Where and when tested and Supertendent																				
<i>40064 1st Bower 40 0 7 35 16 3 14 40 0 0 Byrd Wt. Byrd 24-12-00 Sunderland</i>																				
<i>39974 2nd " 39 3 14 35 13 1 21 40 0 0 Patent Ht. 11-12-00 H.T. Wyford</i>																				
<i>40038 3rd " 38 0 14 32 9 1 14 34 0 0 Reliance 20-12-00</i>																				
<i>Collective weight 115 0 7 114 0 0 Drop test certificate for cast steel heads</i>																				
<i>40134 Stream 10 2 7 12 10 3 21 10 2 0 Rodgers J. Green 5-1-01 Sunderland</i>																				
<i>40130 Kedge 5 1 14 7 14 0 7 5 1 0 4-1-01 H.T. Wyford</i>																				
CHAIN CABLES. HAWSERS AND WARPS.																				
Number of Certificate Fathoms Size Test per Certificate Weight of Chain Cable Fathoms and Size Per Table																				

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with the case*).

1900. July 17 (m), 17 (m), Aug. 21 (m) Nov^r 22 (E), 1901 Jan^r 18 (m)

Workmanship. Are the butts of plating planed or otherwise fitted? Planed

Is the riveted work properly closed?

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 the plating? *A few*

Are the butts of Plating, Stringers, &c., properly shifted and strapped?

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par 24)? Yes State results of tests Good

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? Yes State results of tests good

General Remarks (State quality of workmanship, &c.)

The workmanship is good. The Basel has been constructed in accordance with the approved plans (4 in No.) which together with two Forjans Reports are attached hereto. The fore peak has been filled with water to height of load line and collision bulkhead ground poof. The tunnel has been tested by water from hose. Ground poof.

Vessel placed in dry dock previous to
 completion, bottom cleaned and recoated.
 This is a sister ship to the Steamer
 "Wiles Corndale" W. Hartlepool Reg. No. 10738.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop. 27 ft., R.Q.D. or Break 4, Bridge Dk. 19 ft., F'castle 29 ft.
(in feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated ✓

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). *One deck (iron) & deep framing.*

Official No. 113762 ; Signal Letters.

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

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors. *Cellular*

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, <i>Under Engines</i>	<i>120</i>	<i>307</i>	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		<i>29½</i>
Double bottom, if under Engines only,	<i>Open "well" under boilers</i>		Midship deep tank,		
Double bottom, if under Boilers only,	<i>for 16 ft.</i>		Other tanks, if fitted,		
Double bottom, forward,	<i>124</i>	<i>313½</i>	(If necessary, furnish further information by sketch.)	<i>See pumping plan</i>	<i>yes.</i>

* The wells are not to be included in the lengths of the tanks.

State whether the above have been tested as required by the Rules

* The wells are not to be included in the lengths of the tanks

620-2
State whether the above have been tested as required by the Rules.

Order for Special Survey No. 1820 Surveys
Building
1900 Sept. 3, 6, 15, 21, 24, 28. Oct. 5, 9, 11, 13, 16, 19, 22, 23, 26, 31. Nov. 1, 5, 7, 9, 13, 15, 16, 27, 28, 30. Dec. 3, 8, 13, 14, 15, 17, 18, 19, 20, 24. 1901. Jan. 11, 12, 14, 15, 16, 17, 19, 22, 23, 25, 26, 28.

Date	DAYS of	held while	in builder's yard	Total No. of Visits
627				40

Fees applied

The amount of Entry Fee £ 8 : : 6.21 18

Special.....£ 80 : 14 :
Certificate* f : : :

Chas. Fowling
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Character assigned

W403-0185 2/2