

1 or 2 Dks., R.Q.Dk.,
and Pt. Awng. Dk.

IRON OR STEEL STEAMER.

THUR, AUG 27 1896

Received at London Office.

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

Date of completion of Report *26th Aug. 1896.*

Date, First Survey *3rd March '96*

Port of *Leith*

Last Survey *21st August, 1896.*

Rig *3 mast schooner*

No. *8220* Survey held at *Inverkeithing*
the *Steel Screw Steamer "Guardian"*

ONE OR TWO DECKED VESSEL.

CLASS *100 A1*

FEET.

Master *C. Greenslade*

Year of appointment *1896*

(1) As master in service of
owner of present vessel:—1896
(2) As master of this
vessel:—1896

Built at *Inverkeithing*

When built *1896* Launched *30th May '96*

By whom built *Cumming & Ellis*

Owners *D. W. Bain & Co*

Managers

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

Residence *Portsmouth*

Port belonging to *Penzance*

Destined Voyage *Penzance* If Surveyed while Building, Afloat, or in Dry Dock *Building & Afloat*

Length on Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH—	Feet.	Inches.	Power of	Horse.	No. of Decks with Flat laid
per Rule	<i>145</i>	<i>—</i>	Moulded	<i>23</i>	<i>9</i>	Top of Floors to Main Deck	<i>9</i>	<i>9</i>	Engines	<i>64</i>	<i>One</i>
Dimensions of Ship per Register, Length, <i>146</i>			breadth, <i>23.7</i>			depth, <i>9.35</i>			Moulded Depth, ft. <i>10</i>	ins. <i>1 1/2</i>	Round of Beam <i>8</i> inches.

FRAMING.			Inches in Ship.	Inches in Ship.	16ths or 20ths in Ship.	Inches per Rule or as Approved.	Inches per Rule or as Approved.	FORGINGS AND CASTINGS.			Inches in Ship.	Inches per Rule or as Approved.
Main, Angles, <i>7</i> , <i>E</i> or <i>L</i> Bars, for $\frac{1}{2}$ length amidships			<i>3</i>	<i>2 1/2</i>	<i>5</i>	<i>3</i>	<i>2 1/2</i>	KEEL, Bar or Side Plates depth and thickness			<i>7 x 1 1/2</i>	<i>7 x 1 1/2</i>
for $\frac{1}{2}$ at each end			<i>3</i>	<i>2 1/2</i>	<i>5</i>	<i>3</i>	<i>2 1/2</i>	STEM, moulding and thickness			<i>6 1/4 x 1 1/2</i>	<i>6 1/4 x 1 1/2</i>
in way of Double Bottoms at Solid Floors								STERN-POST for Rudder do. do.			<i>6 1/4 x 3</i>	<i>6 1/4 x 3</i>
" " at intermdt. Bkts.								" for Propeller			<i>6 1/4 x 3</i>	<i>6 1/4 x 3</i>
" of Frames from moulding edge to moulding edge, all fore and aft			<i>2 1/2</i>	<i>2 1/2</i>	<i>5</i>	<i>2 1/2</i>	<i>2 1/2</i>	MAIN PIECE of Rudder, diameter at head			<i>14</i>	<i>14</i>
INVERSED FRAME, Angles								do. at heel			<i>2 1/2</i>	<i>2 1/2</i>
FRAMING, depth of girder								RUDDER, how constructed <i>Ordinary Kay</i>				
STRIPS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships			<i>12 1/2</i>	<i>6</i>		<i>12 1/2</i>	<i>6</i>	Can the Rudder be unshipped afloat? <i>yes</i>				
in way of Engines and Boilers				<i>7 x 8</i>			<i>7 x 8</i>	KEELSONS AND STRINGERS.			Inches in Ship.	Inches per Rule or as Approved.
thickness at the ends of vessel				<i>5</i>			<i>5</i>	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			<i>10</i>	<i>8</i>
depth at $\frac{1}{2}$ the half breadth, as per Rule			<i>8</i>			<i>6 1/4</i>		" Rider Plate			<i>6 1/4</i>	<i>8</i>
height extended at the Bilges			<i>25</i>			<i>25</i>		" Bulb Plate to Intercoastal Keelson				
STRIPS & BRACKETS, in Coll Dble Bottoms								" Horizontal Plates on Floors			<i>3</i>	<i>3</i>
" Distance apart								" Angles			<i>3</i>	<i>3</i>
FORE GIRDER, in Double Bottom, depth and thickness								SIDE KEELSON, Angles			<i>3</i>	<i>3</i>
" Angles, Top								" Bulb Plate above floors for $\frac{1}{2}$ length			<i>5</i>	<i>2 1/2</i>
" Bottom								" Intercoastal Plate for $\frac{1}{2}$ length			<i>5</i>	<i>5</i>
GIRDERS, number and thickness								" Attached to outside plating with Angle				
" Angles								BILGE KEELSON, Angles			<i>5</i>	<i>4</i>
" IN PLATE, depth (exclusive of flange) and thickness								" Bulb Plate above floors for $\frac{3}{5}$ length			<i>5</i>	<i>2 1/2</i>
" Angles								" Intercoastal Plate for $\frac{1}{2}$ length			<i>5</i>	<i>2 1/2</i>
" BOTTOM PLATING, breadth and thickness of Middle Line Strake								" Attached to outside plating with Angle			<i>5</i>	<i>4</i>
" thickness in Engine and Boiler space								BILGE STRINGER Angles			<i>5</i>	<i>4</i>
" Remainder in Holds								" Bulb Plate for <i>whole</i> length			<i>5</i>	<i>2 1/2</i>
STRIPS, Main and Raised Quarter Deck, Angle, Bulb Angle, Plate or Tee Bulb			<i>4</i>	<i>2 1/2</i>	<i>6</i>	<i>4</i>	<i>2 1/2</i>	" Intercoastal Plate for $\frac{1}{2}$ length			<i>3</i>	<i>3</i>
Angles on Upper Edge								" Attached to outside plating with Angle			<i>3</i>	<i>3</i>
Average space			<i>21</i>			<i>21</i>		SIDE STRINGER Angles			<i>3</i>	<i>3</i>
" Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb								" Bulb or Intercoastal Plate for <i>whole</i> length			<i>12</i>	<i>7</i>
Angles on Upper Edge								" Attached to outside plating with Angle			<i>3</i>	<i>3</i>
Average space								Main and Raised Quarter Deck Stringer Plate, breadth and thickness			<i>38</i>	<i>7</i>
" Hold, Plate or Tee Bulb								" Angle on ditto			<i>3 x 3 x</i>	<i>6</i>
Angles on Upper Edge								" Tie Plates fore & aft, outside Hatchways				
Average space								" Diagonal Tie Plates on Bms., No. of Pairs				
" Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb								" Main Dk* Iron or Steel for <i>whole</i> length			<i>6</i>	<i>6</i>
Angles on Upper Edge								" R. Q. Dk* Iron or Steel for <i>whole</i> length			<i>6</i>	<i>6</i>
Average space								" Wood Deck, Material & thickness				
" Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb			<i>4</i>	<i>3</i>	<i>6</i>	<i>4</i>	<i>3</i>	Lower Deck Stringer Plate, breadth and thickness				
Angles on Upper Edge								" Angles on ditto, No.				
Average space			<i>42</i>			<i>42</i>		" Tie Plates, outside Hatchways				
" Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb			<i>4</i>	<i>2 1/2</i>	<i>6</i>	<i>4</i>	<i>2 1/2</i>	" Deck* Material and thickness				
Angles on Upper Edge								Hold Stringer Plate				
Average space			<i>21</i>			<i>21</i>		" Angles on ditto, No.				
STRIPS, In 'tween Decks, Size and Spacing			<i>2 1/2</i>			<i>2 1/2</i>		Poop Deck Stringer Plate, breadth & thickness				
" Hold			<i>2 3/4</i>	<i>42</i>		<i>2 3/4</i>	<i>42</i>	" Angle on ditto				
" Quarter, 'tween Dks., " "								" Tie Plates			<i>7</i>	<i>7</i>
" " in Hold								" Deck, Material and thickness			<i>3</i>	<i>3</i>
FRAMES, In Fore Body, No. and Spacing								Forecastle Deck Stringer Plate, breadth & thickness			<i>24</i>	<i>5</i>
" " Brdth. & Thickness								" Angle on ditto			<i>2 1/2 x 2 1/2</i>	<i>5</i>
" No. of Side Stringers								" Tie Plates			<i>7</i>	<i>6</i>
" " Brdth. & Thickness								" Deck, Material and thickness			<i>3</i>	<i>3</i>
" " No. of Side Stringers								BULKHEADS.				
" " Size of Angles or Tee Bars to Web Frames								" In Vessel.				
" " PLATE PLATES to Stringers between Web Frames, Depth and Thickness								" Per Rule.				
								" Thickness.				
								STIFFENERS.				
								" Horizontal.				
								" Vertical.				
								" Spacing.				
								" Single or Double Frames.				
								" Height up.				
								W.T. BULKHEADS			<i>3</i>	<i>3</i>
								PARTITION				
								LONGITUDINAL				
								Are the outside Plates doubled two spaces of Frames in length?			<i>yes</i>	

PLATING.										RIVETING.																																																																																																																																																											
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.																																																																																																																																																										
	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		EDGES.		RIVETS.		STRAPS.		IF LAPPED.																																																																																																																																																						
	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.	Breadth.	Thickness.																																																																																																																																																					
PLATE KEEL (If Bar Keel, state Riveting)																																																																																																																																																																					
GARBOARD OR A STRAKE	42	8	8	8	42	8	Double	4 1/2	3/4	3	Double whole	3/4	2 5/8	9 3/4	8	✓																																																																																																																																																					
B "	46	7	6	6	46	7	Do	4 1/2	3/4	3	Double whole	3/4	2 5/8	✓	✓	✓																																																																																																																																																					
C "	54	7	6	6	54	7	Do	4 1/2	3/4	3	Do	3/4	2 5/8	✓	✓	✓																																																																																																																																																					
D "	46	7	6	6	46	7	Double	4 1/2	3/4	3	Do	3/4	2 5/8	✓	✓	✓																																																																																																																																																					
E "	54	6	5	5	54	6	Double	4 1/2	3/4	3	Do	3/4	2 5/8	✓	✓	✓																																																																																																																																																					
F "	42	11	7	7	42	11	Do	4 1/2	3/4	3	Do	3/4	2 5/8	✓	✓	✓																																																																																																																																																					
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DOUBLING OF PLATE KEEL																																																																																																																																																																					
Length and thickness of Bilges	12	10			12	10	✓	✓	3/4	3	Do	3/4	2 5/8	✓	✓	✓																																																																																																																																																					
Length and thickness of Sheerstrakes		6				6																																																																																																																																																															
Length of Strake below																																																																																																																																																																					
POOP SIDES																																																																																																																																																																					
RAISED QUARTER DECK SIDES		6				6	Single	2 1/2	3/4	3	Double	3/4	2 5/8		5	Do																																																																																																																																																					
BRIDGE SIDES		5				5	Do	2 1/2	3/4	3	Do	3/4	2 5/8		5	Do																																																																																																																																																					
FORECASTLE SIDES		5				5	Do	2 1/2	3/4	3	Do	3/4	2 5/8		5	Do																																																																																																																																																					
LENGTHS OF PLATING	7 frame spaces																																																																																																																																																																				
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>Siemens Martin process: - Halliwell, Lanarkshire & Dalzell.</i>																																																																																																																																																																					
Main Stringer Plate: Butts, double riveted for whole length amidship. Straps, single, double or overlapped for whole length amidship.																																																																																																																																																																					
Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? <i>Double & double</i>																																																																																																																																																																					
Inner Bottom Plating, riveting of Edges: <i>Butts</i>																																																																																																																																																																					
Centre Girder Butts: <i>Keelson Butts, double riveted.</i>																																																																																																																																																																					
Frames, riveted through Plates with <i>3/4</i> in Rivets, about <i>5 1/4</i> apart.																																																																																																																																																																					
Rivets, state whether of Iron or Steel <i>Iron, uniform size of 3/4 as desired by owner for facility in case of repairs.</i>																																																																																																																																																																					
FRAMES extend in one length from <i>Keel</i> to <i>gunwale</i>																																																																																																																																																																					
REVERSED FRAMES on floors and frames extend from <i>middle line to upper turn of bilges, also alternately to forecabin & fore deck in way of same & to stringer below alternately.</i>																																																																																																																																																																					
MASTS, SPARS, &c.																																																																																																																																																																					
Lower Masts: Fore, Main, Mizzen. <i>P. Pine</i>																																																																																																																																																																					
Bowsprit: <i>Wood</i>																																																																																																																																																																					
Topmasts, Yards and Remainder of Spars: <i>Wood</i>																																																																																																																																																																					
Rigging, Material and Size, Shrouds: <i>Steel Wire</i>																																																																																																																																																																					
Sails: <i>One</i> Suit of Sails and the following spare sails: <i>Stays Do</i>																																																																																																																																																																					
EQUIPMENT No. 6871-67 LETTER <i>f</i> TONNAGE FOR TRAWLERS <i>U.D.K.</i> ANCHORS.																																																																																																																																																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Number of Certificate.</th> <th rowspan="2">Anchors.</th> <th colspan="3">WEIGHT, EX STOCK</th> <th colspan="3">WEIGHT OF STOCK</th> <th colspan="3">TEST, PER CERTIFICATE</th> <th colspan="3">WEIGHT REQ. BY RULE</th> <th rowspan="2">Description of Anchor.</th> <th rowspan="2">Makers.</th> <th rowspan="2">Where and when tested and Superintendent.</th> </tr> <tr> <th>Cwts.</th> <th>qrs.</th> <th>lbs.</th> <th>Cwts.</th> <th>qrs.</th> <th>lbs.</th> <th>Tons.</th> <th>Cwts.</th> <th>qrs.</th> <th>lbs.</th> <th>Cwts.</th> <th>qrs.</th> <th>lbs.</th> </tr> </thead> <tbody> <tr> <td>29645</td> <td>1st Bower</td> <td>7</td> <td>1</td> <td>14</td> <td>1</td> <td>3</td> <td>14</td> <td>9</td> <td>11</td> <td>2</td> <td>7</td> <td>7</td> <td>1</td> <td>0</td> <td>Common</td> <td><i>L. Taylor & Sons Ltd. 2 June 96 & 7. Bedford</i></td> </tr> <tr> <td>29644</td> <td>2nd "</td> <td>7</td> <td>1</td> <td>0</td> <td>1</td> <td>3</td> <td>14</td> <td>9</td> <td>9</td> <td>1</td> <td>14</td> <td>7</td> <td>1</td> <td>0</td> <td>Do</td> <td><i>Do</i></td> </tr> <tr> <td></td> <td>3rd "</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>Do</i></td> </tr> <tr> <td></td> <td>Collective weight</td> <td>14</td> <td>2</td> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>14</td> <td>2</td> <td>0</td> <td></td> <td><i>Do</i></td> </tr> <tr> <td>29595</td> <td>Stream</td> <td>2</td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> <td>7</td> <td>4</td> <td>15</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>Do</td> <td><i>Do 27 May 96</i></td> </tr> <tr> <td></td> <td>Kedge</td> <td>1</td> <td>1</td> <td>2</td> <td>(with stock)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>0</td> <td>0</td> <td>Do</td> <td><i>Do</i></td> </tr> <tr> <td></td> <td>2nd Kedge</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><i>Do</i></td> </tr> </tbody> </table>																	Number of Certificate.	Anchors.	WEIGHT, EX STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			WEIGHT REQ. BY RULE			Description of Anchor.	Makers.	Where and when tested and Superintendent.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	29645	1st Bower	7	1	14	1	3	14	9	11	2	7	7	1	0	Common	<i>L. Taylor & Sons Ltd. 2 June 96 & 7. Bedford</i>	29644	2nd "	7	1	0	1	3	14	9	9	1	14	7	1	0	Do	<i>Do</i>		3rd "															<i>Do</i>		Collective weight	14	2	14								14	2	0		<i>Do</i>	29595	Stream	2	1	0	0	2	7	4	15	0	0	2	1	0	Do	<i>Do 27 May 96</i>		Kedge	1	1	2	(with stock)							1	0	0	Do	<i>Do</i>		2nd Kedge															<i>Do</i>
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Boats: <i>2 in number</i>																																																																																																																																																																					
Pumps: Number <i>3</i> Diameter of Barrel and Tail Pipe <i>4" x 2"</i>																																																																																																																																																																					
Windlass: <i>Mc Onies Iron Patent</i>																																																																																																																																																																					
Engine Room Skylights: How constructed? <i>Iron casing with glass bullseyes at sides</i>																																																																																																																																																																					
What arrangements for deadlights in bad weather? <i>✓</i>																																																																																																																																																																					
Coal Bunker Openings: How constructed? <i>Circular Cast Iron</i> How are lids secured? <i>By lead & Check</i> Height above deck? <i>Flush</i>																																																																																																																																																																					
Number of Scuppers, and number and dimensions of Freeing Ports, &c. <i>On each side in well scuppers & 2 ports 3 ft x 2 ft.</i>																																																																																																																																																																					
Ceiling in Holds, thickness and material <i>2" white pine</i> Ceiling 'tween Decks, thickness and material <i>None</i>																																																																																																																																																																					
Cargo Hatchways: How formed? <i>Iron Comings</i> Hatches: If strong and efficient? <i>yes</i>																																																																																																																																																																					
State size No. 1 Hatch (Forward) <i>21' x 12'</i> No. 2 Hatch <i>21' x 12'</i> No. 3 Hatch <i>—</i> No. 4 Hatch <i>—</i>																																																																																																																																																																					
Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch <i>2 deep webs & 1 wood fore & after.</i>																																																																																																																																																																					
No. of Breasthooks <i>3</i> No. of Crutches <i>2</i>																																																																																																																																																																					
Bulwarks, height above deck and description <i>4 ft of 5/8" steel</i> Main Rail, material and size <i>Bull angle 5" x 2 1/2"</i>																																																																																																																																																																					
The above is a correct description.																																																																																																																																																																					
Builder's Signature (here only): <i>James P. Hill</i> Surveyor's Signature: <i>H. Paulsen</i>																																																																																																																																																																					
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Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case).

M. 274 Feb. 96

Workmanship. Are the butts of plating planed or otherwise fitted? *All butts lapped except those of garb. strakes.*

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 the plating? *No, except a few*

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

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

Workmanship & Material Good.

This vessel is built in accordance with the approved plan of *Kridship's* section, forwarded to the Secretary on the 15th Aug. 96, and in conformity with the Rules.

The pumps are in good working order; the decks were flooded & are tight; there are no sluice valves or watertight doors in bulkheads.

It is stated by the builders that vessel will be engaged exclusively in the coal trade and cargo battens are consequently not fitted.

Approved Plan of Profile is hereto attached.

The Surveyor should state the Number of Report and Name of any Sister Vessel. *This is not a duplicate of any other vessel.*

PARTICULARS FOR RECORD IN THE REGISTER BOOK.—Length of Poop *✓* ft. R.Q.D. or Break *7.7* ft. Bridge Dk. *11* ft. F'castle *25* 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

Or. B.R. is joined to B. B.R.

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 B.R. (steel)*

Official No. ; 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 *There is no double bottom.*

Where fitted.	Length. Feet.	Water Capacity. Tons.	Where fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	22	40
Double bottom, forward,			After peak tank,	6	1
Double bottom, under Engines and Boilers,			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.)		

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

Order for Special Survey No. *657* Date *6th March, 1896*

Order for Ordinary Survey No. *23* Date *23* in builder's yard

1st. On the several parts of the frame, when in place, and before the plating was wrought *Built under special survey & surveyed*

2nd. On the plating during the process of riveting *1896 - March 3. 19. 24. 31; April 7. 14. 18. 27;*

3rd. When the beams were in and fastened and before the decks were laid *May 4. 11. 19. 26; June 4. 9. 12;*

4th. When the ship was complete, and before the plating was finally coated or cemented *July 14. 21.*

5th. After the ship was launched and equipped

Total No. of Visits *17*

The amount of Entry Fee *£ 2* Fees applied for, *26th Aug. 1896*

Special *£ 16* Certificate *£ 1*

Travelling Expenses, if any *£ 3*

I am of opinion this Vessel should be Classed *+ 100 A1 Steel Will do.*

With, or without Freeboard, as condition of Class

Committee's Minute *FRI. AUG 28 1896*

Character assigned *100A1 Steel*

Will do.

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