

1 or 2 Decks.

IRON OR STEEL STEAMER.

Received at London Office, 30 JUL 1891

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

Date of completion of Report *20 July 1891*

Port of *West Hartlepool*

No. *8517* Survey held at *West Hartlepool* Date, First Survey *Jan 5th 91* Last Survey *25 July 1891*

On the *Steel Screw Steamer Silvia*

Rig *Schooner (Free Trade)*

TONNAGE under
Tonnage Deck... *854.03*
Do. of Poop *51.59*
Do. of Raised Qr. *67.85*
Do. of Break... *193.35*
Do. of Bridge House *4.02*
Do. of Houses on Deck *20.89*
Do. of excess of Hatchways *29.64*
Do. of Forecastle *7.28*
Do. above Crown of Engine Room... *1228.65*
Gross Tonnage *47.28*
Less Crew Space *1481.57*
Less above Crown of Engine Room... *393.17*
TONNAGE FOR FEES... *16.68*
Less Engine Room
Less Navigation Spaces
Register Tonnage as cut on Beam... *771.52*

ONE OR TWO DECKED VESSEL.

CLASS *700 A1*

FEET.

Half Breadth (moulded) *16.2*
Depth from upper part of Keel to top of Main Deck Bms. *16.8*
Girth of Half Midship Frame (as per Rule) *29.5*
1st Number *62.3*
Length *230.3*
2nd Number *14333*
Proportions—Breadths to Length *7.12*
Depths to Length—Main Deck to top of Keel... *13.8*
Destined Voyage *Pacific*

Master *Henry*

Year of appointment *1891*

(1) As master in service of owner of present vessel:—18
(2) As master of this vessel:—1891

Built at *West Hartlepool*

When built *1891* Launched *June 23rd 91*

By whom built *A. Irvine & Co*

Owners *J. L. Lippitt Esq*

Managers

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

Residence *Grimsby*

Port belonging to *Grimsby*

Surveyed while Building, Afloat, or in Dry Dock

LENGTH on Deck Feet. Inches. BREADTH Feet. Inches. DEPTH Feet. Inches. Power of Engines Horse. No. of Decks with Flat laid one and No. of Tiers of Beams *web frames*

Dimensions of Ship per Register, Length *231.5* breadth *32.5* depth *16.8*

Moulded Depth, ft. *16* ins. *0* Round of Beam *8* inches.

FORGINGS AND CASTINGS.

KEEL, *Bar or Side Plates* depth and thickness *8 x 1*
STERN, moulding and thickness... *7 1/4 x 2 3/8*
STERN-POST for Rudder dovetail... *8 x 4 1/2*
" for Propeller... *8 x 4 1/2*
MAIN PIECE of Rudder, diameter at head... *5 1/2*
do. at heel... *3*
RUDDER, how constructed *Forged iron frame and plate*
Can the Rudder be unshipped afloat? *Yes*

FRAMING.

FRAME, Angles, or *2* Bars, for $\frac{1}{2}$ length amidships
Do. for $\frac{1}{2}$ at each end...
Do. in way of Double Bottoms...
Distance of Frames from moulding edge to moulding edge, all fore and aft...
REVERSED FRAME, Angles...
FLOORS & BRACKETS, in Cell Dble Bottoms
CENTRE GIRDER, in Double Bottom, depth and thickness...
Angles, Top *3 1/2 x 3 1/2 x 7/16*
SIDE GIRDERS, number and thickness...
MARGIN PLATE, depth (exclusive of flange) and thickness...
Angles...
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake...
" thickness in Engine and Boiler space...
" Remainder in Holds...
BEAMS, Main and Raised Quarter Deck, Single Angle, Roll Angle, Plate or the Rule...
Angles on Upper Edge...
Average space...
BEAMS, Lower Deck, Single Angle, Roll Angle, Plate or the Rule...
Angles on Upper Edge...
Average space...
BEAMS, Bridge Deck, Angle, Roll Angle, Plate or the Rule...
Angles on Upper Edge...
Average space...
BEAMS, Forecastle Deck, Angle, Roll Angle, Plate or the Rule...
Angles on Upper Edge...
Average space...
BEAMS, In Fore Body, No. and Spacing...
" Brdth. & Thickness...
" No. of Side Stringers...
BEAMS, In After Body, No. and Spacing...
" Brdth. & Thickness...
" No. of Side Stringers...
" Size of Angles on the Main to Web Frames...
LOWER DECK, Main and Raised Quarter Deck, Single Angle, Roll Angle, Plate or the Rule...
Angles on Upper Edge...
Average space...
BEAMS, Bridge Deck, Angle, Roll Angle, Plate or the Rule...
Angles on Upper Edge...
Average space...
BEAMS, Forecastle Deck, Angle, Roll Angle, Plate or the Rule...
Angles on Upper Edge...
Average space...
BEAMS, In Fore Body, No. and Spacing...
" Brdth. & Thickness...
" No. of Side Stringers...
BEAMS, In After Body, No. and Spacing...
" Brdth. & Thickness...
" No. of Side Stringers...
" Size of Angles on the Main to Web Frames...

KEELSONS AND STRINGERS.

CENTRE LINE KEELSON, National Plate or other...
Angles...
SIDE KEELSON, Angles...
Angles...
Main and Raised Quarter Deck Stringer Plate, on ends of Beams, breadth & thickness...
Angle on ditto...
No. of Plates fore & aft, outside Hatchways...
Diagonal Tie Plates on Deck, No. of Plates...
Flat of Deck, Material and thickness...
How fastened to Beams...
Lower Deck Stringer Plate, on ends of Beams, breadth and thickness...
Angles on ditto...
No. of Plates, outside Hatchways...
Flat of Deck, Material and thickness...
How fastened to Beams...
Poop Deck Stringer Plate, breadth & thickness...
Angle on ditto...
Tie Plates...
Flat of Deck, Material and thickness...
Bridge Deck Stringer Plate, breadth & thickness...
Angle on ditto...
No. of Plates...
Flat of Deck, Material and thickness...
Forecastle Deck Stringer Plate, breadth & thickness...
Angle on ditto...
Tie Plates...
Flat of Deck, Material and thickness...

PLATING.

ROOF PLATE, breadth and thickness...
Plating of raised thickness, & length appl...
PLATES in Garboard Strakes, brdth & thickness...
From Garboard to lower part of Bilges...
Bilges, number of Strakes and thickness...
Of doubling at Bilge, or increased thickness, and length applied...
from up. part of Bilge to l. edge of Sh'rstrake...
Sheerstrake, breadth and thickness...
Of d'bling at Sh'rstk. & lng. applied...
Poop Sides...
Raised Quarter Deck Sides...
Bridge Sides...
Forecastle Sides...
Lengths of Plating...
If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

Form No. 1 A.

Ceiling betwixt Decks, thickness and material *2 1/2 in. iron*

" in hold do. *2 1/2 in. iron*

Number of Breasthooks *Eight*

" Crutches *Four*

Are the outside Plates doubled two spaces of Frames in length? *Yes*

The FRAMES extend in one length from *Fore Centre to Main Mast* Riveted through Plates with *3/4 in.* Rivets, about *5 1/2* apart

The REVERSED ANGLE on floors and frames extend from *Centre to Main Plate and from Main Plate to Upper Deck and to Stringer next below alternately*

RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c.

Garboard, double riveted to Bar Keel *or No. 1 Keel* with rivets *1 1/8 in.* diameter, averaging *5 1/2 in.* from centre to centre.

Edges of Garboards and upper part of Bilge, worked clench, double riveted; with rivets *3/4 in.* diameter, averaging *5 1/2 in.* from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, treble *or double* riveted; treble for *1/2* length; with rivets *3/4 in.* dia., averaging *5 1/2 in.* from cr. to cr.

" of C.E. & S. overlapped for *whole* length, treble riveted for *1/2* length; with rivets *3/4 in.* dia., averaging *5 1/2 in.* from cr. to cr.

Butts of *Three* Strakes at Bilge for *1/2* length, treble riveted with Butt Strap *3/4 in.* thicker than the plates they connect *except where overlapped*

Edges from Bilge to Sheerstrake, worked clench, double *or single* riveted; with rivets *3/4 in.* diameter, averaging *5 1/2 in.* from centre to centre.

Butts from Bilge to Sheerstrake, worked carvel, treble *or double* riveted; treble for *1/2* length; with rivets *3/4 in.* dia., averaging *5 1/2 in.* from cr. to cr.

" overlapped for *1/2* length, treble riveted for *1/2* length; with rivets *3/4 in.* dia., averaging *5 1/2 in.* from cr. to cr.

Edges of Sheerstrake, double *or single* riveted.

Butts of Sheerstrake, treble riveted for *1/2* length amidships.

Butts of Main Stringer Plate, treble riveted for *1/2* length amidships. *Single or double Butt Straps to Stringer Plate as overlapped length*

Butts of Inner Bottom Plating *double* riveted for *1/2* length.

Breadth of edge laps of Shell Plating in double riveting *4 1/2 & 5 1/4* Breadth of edge laps of Shell Plating in single riveting

Butt Straps of Shell Plating breadth and thickness *1 1/2 in. 1/4 in. 9/16 in. 1/2 in. 1/4 in.* Butts, if lapped, breadth of laps *7 1/2 in. and 9 in. (7 1/2 in. at ends)*

Butt Straps of Keelsons, Stringer and Tie Plates, treble or double riveted? *Single and double*

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? *Sumner's Patent Steel, Corbett and Sons, Southport, Lancs. Co., Goodwin's*

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed, where practicable*

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 facing surfaces? *Yes*

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

MASTS, SPARS, &c.

	Material	Total Length	DIAMETER AND THICKNESS		No. of Plates in round	ANGLES	RIVETING
			At Partners	Heel			
Fore	<i>Iron</i>	<i>74' 4"</i>	<i>1 1/2 in. x 1/4 in.</i>	<i>13 1/2 in. x 1/4 in.</i>	<i>4</i>	<i>1/2 in.</i>	<i>Double</i>
Main	<i>Iron</i>	<i>74' 4"</i>	<i>1 1/2 in. x 1/4 in.</i>	<i>13 1/2 in. x 1/4 in.</i>	<i>4</i>	<i>1/2 in.</i>	<i>Double</i>
Misc.	<i>Iron</i>	<i>74' 4"</i>	<i>1 1/2 in. x 1/4 in.</i>	<i>13 1/2 in. x 1/4 in.</i>	<i>4</i>	<i>1/2 in.</i>	<i>Double</i>

Bowsprit *Yes*

Reefs, Tacks and Remainder of Spars *See Note*

Rigging, Material and Size, Shrouds *See Note*

Sails. *See Note*

EQUIPMENT No. *15998* LETTER *H*

ANCHORS.

Number of Certificate	Weight, Ex. Stock	Weight of Stock	Test, per Certificate	Weight Req. by Rule	Description of Anchor	Makers	Where and when tested and Superintendent
13586	1st Bower	26 1 17	26 9 0	26 1	<i>Payson & Co.</i>	<i>L. Layton & Co. Wm. G. & Co. & Co.</i>	
13555	2nd "	26 1 2	26 9 0	26 1	<i>Payson & Co.</i>	<i>L. Layton & Co. Wm. G. & Co. & Co.</i>	
13557	3rd "	22 2 26	22 18 0	22 2	<i>Payson & Co.</i>	<i>L. Layton & Co. Wm. G. & Co. & Co.</i>	
29328	Collective light	75 1 17	75 10 0	75 10	<i>Payson & Co.</i>	<i>L. Layton & Co. Wm. G. & Co. & Co.</i>	
29329	Stream	75 0 21	75 10 0	75 10	<i>Payson & Co.</i>	<i>L. Layton & Co. Wm. G. & Co. & Co.</i>	
29327	Kedge	3 2 6	3 24 6	3 2	<i>Payson & Co.</i>	<i>L. Layton & Co. Wm. G. & Co. & Co.</i>	
29326	2nd Kedge	1 3 12	1 4 4	1 3	<i>Payson & Co.</i>	<i>L. Layton & Co. Wm. G. & Co. & Co.</i>	

CHAIN CABLES.

Number of Certificate	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms & Size	Description	Makers of Cables	Where and when tested, and Superintendent
20458	120	1 1/2	40 1/2	152.7	120	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>
20459	120	1 1/2	40 1/2	152.7	120	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>
18527	75	3/4	15 1/2	33.27	75	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>
20458	90	3/4	15 1/2	33.27	90	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>

HAWERS AND WARPS.

Number of Certificate	Fathoms	Size	Test per Certificate	Weight of Chain Cable	Fathoms & Size	Description	Makers of Cables	Where and when tested, and Superintendent
20458	120	1 1/2	40 1/2	152.7	120	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>
20459	120	1 1/2	40 1/2	152.7	120	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>
18527	75	3/4	15 1/2	33.27	75	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>
20458	90	3/4	15 1/2	33.27	90	<i>Shadish</i>	<i>James Lloyd</i>	<i>1/2 in. 1/2 in. 1/2 in.</i>

Boats *Four (Two life boats & two others)*

Pumps, Number *Four*

The Windlass is *Iron, good*

Engine Room Skylights.—How constructed? *Plate and angle*

What arrangements for headlights in bad weather? *Strong lantern, fitted with battery*

Coal Bunker Openings.—How constructed? *Plate and angle* How are lids secured? *Patents*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *10 on each side, Forward two scuppers and two ports 30 x 24. Aft three scuppers and two ports 24 x 12.*

Charge Hatchways.—How formed? *Plate and angle*

State size No. 1 Hatch (Forward) *19 1/2 x 11 1/2 x 3.0* No. 2 Hatch *19 1/2 x 11 1/2 x 2.0* No. 3 Hatch *19 1/2 x 11 1/2 x 2.6* No. 4 Hatch *19 1/2 x 11 1/2 x 2.6*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *71 No. 1 Hatch one shifting beam and 3 fore & afters*

Remaining Hatchways one web plate and 3 fore & afters

Bulwarks, height above deck and description *4 ft 9 in. of iron*

Main Rail, material and size *bulwark 6 x 3 x 1/2 in.*

The above is a correct description.

Builder's Signature, (here only) *James Lloyd*

Surveyor's Signature, *James Lloyd*

Order for Special Survey No. *1477*

Date *Nov 8 1891*

Order for Ordinary Survey No. *72*

Date *Nov 8 1891*

No. *72* in builder's yard

1st. On the several parts of the frame, when in place, and before the plating was wrought

2nd. On the plating during the process of riveting

3rd. When the beams were in and fastened, and before the decks were laid

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

5th. After the ship was launched and equipped

Built under Special Survey

Date 1st Survey *5 Jan 1891*

Last *25 July 1891*. Total No. of Visits *3*

State dates and initials of letters respecting this case *4th Nov 190 (M), 9th April 191 (P), 8th May 191 (M)*

General Remarks (State quality of workmanship, &c.) *This vessel has been built in accordance with the Rules and the approved tracing, now in the London Office. The workmanship throughout the vessel is of good quality and the steel used in the hull has been tested as presented by the Rules and found satisfactory*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *27' 6 in.*, R.Q.D. or Break *61' 4 in.*, Bridge Dk. *9' 10 in.*, F'castle *29' 7 in.*

(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.

The Poop and Quarter Deck is joined to the Bridge house

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 Steel & iron and web frames*

Official No. *99172*; Signal Letters *MGJK*

PARTICULARS OF WATER BALLAST.—

Double bottom, aft, length *199' 4"* and water capacity in tons *310*

Double bottom, under engines and boilers, length *199' 4"* and water capacity in tons *310*

Double bottom, constructed on the cellular system, length *199' 4"* and water capacity in tons *310*

Fore peak tank, water capacity in tons *15*

Midship deep tank, length *199' 4"* and water capacity in tons *310*

Other tanks, if fitted, length *15* and water capacity in tons *310*

The above have *now* been tested as required by the Rules.

(If necessary, furnish further information by sketch.)

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

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated *17 July 1891 (M)*

In Summer *ft. ins.*

In Winter *ft. ins.*

For Winter in North Atlantic *ft. ins.*

Fresh Water above the centre of disc *ft. ins.*

The amount of Entry Fee..... £ *4* : : is received by me, *James & Bradley*

Special ... £ *54* : *10* : *6* *29 July 1891*

Certificate £ *11* : : *29 July 1891*

Travelling Expenses, if any £ *100 A 1 Steel*

I am of opinion this Vessel should be Classed *100 A 1 Steel*

Committee's Minute *31 JUL 1891*

Character assigned *100 A 1 Steel*

+L. m.b. 7/9 10K. (ph. & ph. 11) web frames well ok

It is submitted that this vessel appears eligible to be Classed 100 A 1 (Steel) as recommended 10K. (ph. & ph. 11) & web frames. All D.B. (particulars above) well ok

Surveyor to Lloyd's Register of British and Foreign Shipping

James & Bradley

Theophilus Phillips

Surveyor to Lloyd's Register of British and Foreign Shipping