Sailing Vessel. ~~IRON OR~~ STEEL SAILING SHIP.

Port of Greenock Date of completion of Report 25th February 96 Received at London Office SAT. FEB 22 1896 No. 11397

Survey held at Port Glasgow Date of First Survey 8th October 1895 Last Survey 18th February 1896

On the "Sound of Jura" Rig 4 Mast Ship Rig

TONNAGE under Tonnage Deck	1028.44
Do. of Poop Awning	59.45
~~Do. of raised Qr. Dk. or Break~~	
~~Do. of Bridge House~~	
Do of Forecastle Lightlances	5.49
Do. of Houses on Deck	14.24
Do. of excess of Hatchways	1.14
Gross Tonnage	1109.06
Less Crew Space	44.53
TONNAGE FOR FEES..	1064.53
Less Navigation spaces	44.06
Register Tonnage as cut on Beam....	1020.47

ONE ~~OR TWO~~ DECKED VESSEL.

CLASS ✠ 100 A1.

	FEET.
Half Breadth (moulded)	17.70
Depth from upper part of Keel to top of Upper Deck Beams	21.40
Girth of Half Midship Frame (as per Rule)	34.95
1st Number	14435
Length	200.4
2nd Number	14922
Proportions—Breadths to Length	5.66
Depths to Length—Upper Deck to top of Keel	9.24

Master Evan Davies

Year of Appointment (1) As master in service of owner of present vessel —18 96 (2) As master of this vessel 18 96

Built at Port Glasgow

When built 1896 Launched 20th January

By whom built Russell & Co

Owners Sound of Jura Ship Co. (Ltd.)

Managers (See O.R.)

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

Residence 134, St Vincent Street, Glasgow

Port belonging to Glasgow

Destined Voyage Rio de Janeiro If Surveyed while Building, Afloat, or in Dry Dock Building & Afloat

	Feet.	Inches.
LENGTH on deck as per rule	200	8½
BREADTH—Moulded	35	5
DEPTH—Top of Floors to Upper Deck Beams	19	9

No. of Decks with Flat laid One

No. of Tiers of Beams Two

Dimensions of Ship per Register, Length, 210.3 Breadth, 35.6 depth, 19.5 Moulded depth, ft. 21 in. 0 Round up of Beam 8½ ins.

FORGINGS ~~AND CASTINGS~~.

	Inches in Ship.	Inches per Rule. Or as Approved.
~~KEEL, Bar or Side Plates~~, depth and thickness	8 × 2 3/8	8 × 2 3/8
~~KEEM~~, moulding and thickness	4½ × 2 3/8	4½ × 2 3/8
~~STERN-POST~~, do. do.	4½ × 2 3/8	4½ × 2 3/8
RUDDER-PIECE or RUDDER, diameter at head	5¼	5¼
" " " at heel	4½ × 3	3½ × 3
" " ~~Pintles~~	3	3

RUDDER, how constructed Iron frame & side plates

Can the Rudder be unshipped afloat? Yes

FRAMING.

	Inches in Ship.	Inches in Ship.	20ths or 20ths in Ship	Inches per Rule Or as Approved	Inches per Rule Or as Approved	20ths per Rule Or as Approved.
FRAME, Angles, ~~L Bars~~, for ⅔ length amidships	5	3	8	5	3	8
for ⅓ at each end	5	3	7	5	3	7
Distance of Frames from moulding edge to moulding edge, all fore and aft		24			24	
REVERSED FRAME, Angles	3	3	7	3	3	7
~~DEEP FRAMING~~, depth of girder						
FLOORS, depth and thickness of Floor Plate at mid line for ⅔ length amidships		23½	9		23½	9
" thickness at the ends of vessel			8-7			8-7
" depth at ¾ the half breadth, as per Rule		11 3/4			11 3/4	
" height extended at the Bilges		44			44	
BEAMS, Main Deck, ~~Single Angle, Bulb Angle~~, Plate ~~or Tee~~ Bulb		8	8		8	8
" Angles on Upper Edge	3	3	6	3	3	6
" Average space		48			48	
BEAMS, Lower Deck, Plate ~~or Tee~~ Bulb		8½	8		8½	8
Angles on Upper Edge	3	3	7	3	3	7
Average space		48			48	
~~" Hold, Plate or Tee Bulb~~ Angle	6	3	9	6	3	9
~~Angles on Upper Edge~~						
Average space		24			24	
BEAMS, Poop Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ Angle	6½	3	8	6½	3	8
~~Angles on upper edge~~	6½ 6½	3½ 4	9 8			
Average space		48			48	
~~BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, or Tee Bulb~~						
~~Angles on upper edge~~						
~~Average space~~						
BEAMS, Forecastle Deck, Single Angle, ~~Bulb Angle, Plate or Tee Bulb~~	8	3	9	8	3	9
" ~~Angles on Upper Edge~~						
" Average space		48			48	
PILLARS, In 'tween Decks, Size and Spacing	2 5/8	48		2 5/8	48	
" " Hold " "	3 3/8	48		3 3/8	48	
" ~~Quarter, 'tween Dks.~~ " "						
" Quarter in ~~Holds~~ Tank " "	3 3/8	48		3 3/8	48	
WEB FRAMES, Number and Spacing	(2)	As per plan				
" Breadth and thickness		15	8		15	8
No. of Side Stringers, breadth & thickness	(1)	10-15	8		10-15	8
Size of Angles ~~or Tee Bars~~ to Web Frames	3	3	7	3	3	7
~~ANGLET PLATES to Stringers between Web Frames, Depth and Thickness~~						

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved	Inches per Rule Or as Approved	20ths per Rule Or as Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, ~~Through Plate, or Intercostal Plates~~		15	11		15	11
" Rider Plate		10½	11		10½	11
" ~~Bulb Plate to Intercostal Keelson~~						
" ~~Horizontal Plates above floors~~						
" Angles	5	3½	8	5	3½	8
SIDE KEELSON, Angles	5	3½	8	5	3½	8
" ~~Bulb or Plate above floors for ___ lng.~~						
" Intercostal Plate for Half length in way of Tank			6 3/4			6 3/4
" Attached to outside Plating with Angle	3	3	4	3	3	4
BILGE KEELSON, Angle	5	3½	8	5	3½	8
" ~~Bulb above floors for ___ length~~						
" ~~Intercostal Plates for ___ length~~						
" ~~Attached to outside Plating with Angle~~						
BILGE STRINGER, Angles	5	3½	8	5	3½	8
" ~~Bulb Plate for ___ length~~						
" ~~Intercostal Plates for ___ length~~						
" ~~Attached to outside Plating with Angle~~						
~~SIDE STRINGER, Angles~~						
" ~~Bulb Plate for ___ length~~						
" ~~Intercostal Plate for ___ len.~~						
" ~~Attached to outside Plating with Angle~~						
~~UPPER SIDE STRINGER, Angles~~						
" ~~Bulb Plate for ___ length~~						
" ~~Intercostal Plate for ___ len.~~						
" ~~Attached to outside Plating with Angle~~						

Main Deck Stringer Plate, breadth and thickness	36	9	36	9
" Angle on ditto	4 × 4	8	4 × 4	8
" Tie Plates fore and aft, outside Hatchways	11	9	11	9
" Diagonal Tie Plates, No. of Prs. 5	11	9	11	9
" ~~Main Dk.*~~ Iron or Steel for ___ len.				
" Wood Deck, Material & thickness P.P.	4		3½	
Lower Deck Stringer Plate, breadth and thickness	29	8	29	8
Is the Stringer Plate attached to the Outside Plating?	Yes			
" Angles on ditto, No. 2	3½ × 3½	8	3½ × 3½	8
" Tie Plates, outside Hatchways	11	8	11	8
" ~~Diagonal Tie~~ Plates, ~~No. of Prs.~~ Tank Top Partly laid		7		7
" Deck, Material & thickness W.P.	2½			
~~Hold Stringer Plate~~				
~~Is the Stringer Plate attached to the Outside Plating?~~				
" ~~Angles on ditto, No.~~				
Poop Deck Stringer Plate, breadth & thickness	(Rounded)	6		6
" Angle on ditto	3½ × 3	6	3½ × 3	6
" Tie Plates	8	6	8	6
" Deck, Material and thickness Y.P.	3		3	
~~Bridge Deck Stringer Plate~~, breadth & thickness				
" ~~Angle on ditto~~				
" ~~Tie Plates~~				
" ~~Deck, Material and thickness~~				
Forecastle Deck Stringer Plate, b'dth & thkns	24	6	24	6
" Angle on ditto	3½ × 3	6	3½ × 3	6
" Tie Plates	8	6	8	6
" Deck, Material and thickness P.P.	3		3	

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

BULKHEADS.

	Number. In Vessel.	Number. Per Rule.	Thickness. 20ths.	STIFFENERS. Horizontal. Inches.	STIFFENERS. Vertical. Inches.	STIFFENERS. Spacing Inches.	Single or Double Frames.	Height up.
W.T. BULKHEADS	1	1	6	Bulb Angle 4½ × 3 × 9	5 × 3 × 8	30	Double	Main Dk.
PARTITION "				(Wooden Chain Pockets)				

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

Form No. 1D.

GRH333.0108(118)

PLATING.							RIVETING.										
STRAKES.	AS IN SHIP. Amidship. Breadth. Inches.	Amidship. Thickness. 20ths	Forward. Thickness. 20ths	Aft. Thickness. 20ths	PER RULE OR AS APPROVED. Amidship Breadth. Inches.	Amidship Thickness. 20ths	EDGES. Single or Double.	Breadth of Lap. Inches.	Rivets. Diam. Inches.	Rivets. Spacing cr. to cr. Inches.	BUTTS. Double or Treble and for what Length.	Rivets. Diam. Inches.	Rivets. Spacing cr. to cr. Inches.	Straps. Breadth. Inches.	Straps. Thickness. 20ths.	If Lapped. Breadth. Inches.	If Lapped. For what Length.
Keel (Riveting)							Double		1 1/8	5 5/8							
Garboard or A Strake	40	11	10	10	40	11	"	5 1/4	7/8	3 3/8	Double whole length	7/8	3 5/8	11 1/2	11		
B	54	9	8	8	54	9	"	5 1/4 & 4 1/2	7/8 & 3/4	3 3/8 & 3	Treble	3/4	2 5/8			4 1/2	Whole
C	46	10	9	8	46	10	"	4 1/2	3/4	3	"	7/8	3 3/8			9	"
D	54	9	8	8	54	9	"	"	"	"	"	3/4	2 5/8			4 1/2	"
E	46	10	9	8	46	10	"	"	"	"	"	7/8	3 3/8			9	"
F	54	9	8	8	54	9	"	"	"	"	"	3/4	2 5/8			4 1/2	"
G	46	10	9	8	46	10	"	"	"	"	"	7/8	3 3/8			9	"
H	54	9	8	8	54	9	"	"	"	"	"	3/4	2 5/8			4 1/2	"
J	46	10	9	8	46	10	"	5 1/4 & 4 1/2	7/8 & 3/4	3 3/8 & 3	"	7/8	3 3/8			9	"
Sheerstrake K	40	11	10	9	40	11	"	5 1/4	7/8	3 3/8	Treble 2 len.	"	"	16 3/4	13		
L																	
M																	
N																	
Poop ~~or R. Q. Dk.~~ Sides				6		6	Single	2 1/2	3/4	3	Double	5/8	2 5/8 & 3 1/2	8	6		
~~Bridge Sides~~																	
Forecastle Sides			6			6	"	"	"	"	"	"	2 5/8	8	6		
Lengths of Plating	8 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.? (Siemens Martin process) Frames & Beams - Hallside. Shell plating - Parkhead & Mossend. Floors, Masts & Yards - Consett. Keelsons & Bulkheads - Consett & Hallside. Tie & Stringer Plates and Stringer angles - Mossend & Lanarkshire.

Main Stringer Plate { **Butts,** treble riveted for half length ~~amidship~~. **Straps,** ~~single, double or~~ overlapped for whole length ~~amidship~~

Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? Treble & Double

~~Centre Girder Butts,~~ riveted. **Keelsons Butts,** Treble riveted.

Frames, riveted through Plates with 3/4 in. Rivets, about 5 1/4 ins. apart.

Rivets, state whether of Iron or Steel Iron.

FRAMES extend in one length from Keel to Gunwale, except in way of Tank.

REVERSED FRAMES on floors and frames extend from the middle line to Gunwale and to Lower Deck alternately.

MASTS AND SPARS.

MASTS, &c.		Material.	Total Length. Feet. Ins.	Partners. Ins.	Heel. Ins.	Hounds. Ins.	Head. Ins.	No. of Plates in Round.	Angles. Number.	Angles. Size. Inches.	Riveting. Seams.	Riveting. Butts.	RIGGING. Material.	Shrouds. No.	Shrouds. Size. Ins.	Stays. No.	Stays. Size. Ins.
Lower Masts	Fore	Steel	74-2	24×7 20ths	19×6 20ths	20×6 20ths	16×6 20ths	2	Nil		Double	Treble outside wedging	Gal. St. Wire	6 and Cap	4	2	4
	Main	} "	89-10	23×7	18×6	19×6	15 1/2×6	2	"		"	" "	"			2	3 3/4
	Mizen												"	4 and Preventer	3 3/4		
	Jigger	"	88-0										"	3 and Preventer	3		
Bowsprit (Pole)		"	Capstan 19-3	"	19×7	Cap band 16×6	7×5	2	7/16	3×3×7/20	"	" "	Chain	2	13/16		
Topmasts	Fore	"	45-6		16×6	14×5	13 1/2×5	2	"	3×2 1/2×3/8	Single		Gal. St. Wire	3		2	4
	Main	Wood											"			1	3 3/4
	Mizen	"															
	Jigger	"	(cleated)														
Yards.	Fore	Steel	67-10	At Centre 16×6		At Ends 8×3/16		2	Nil		Single	Treble					
Lower Yards	~~Main~~			"		"											
	~~Crossjack~~			"		"											
	~~Jigger~~			"		"											
Topsail Yards. Fore	Lower	"	61-0	"	15×5	"	7 1/2×3/16	2	"		"						
	Upper	"	55-0	"	13×5	"	6 1/2×3/16	2	"		"						
~~Main~~	~~Lower~~			"		"											
	~~Upper~~			"		"											
~~Mizen~~	~~Lower~~			"		"											
	~~Upper~~			"		"											
~~Jigger~~	~~Lower~~			"		"											
	~~Upper~~			"		"											

Quality Good - Makers The Whitecross Co. Lim. Certificate herewith (will be forwarded)

Remainder of **Spars** Wood.

SAILS. One Suit of Sails, and the following Spare Sails 12 in all.

EQUIPMENT No. 15916 **LETTER** 9.

ANCHORS. ~~TONNAGE FOR TRAWLERS U. Dk.~~

Number of Certificate.	Anchors.	Weight, Ex. Stock Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs.	Test, per Certificate. Tons.	cwts	qrs.	lbs.	Weight Req. per Rule Cwts.	qrs.	lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
28186	1st Bower	30	1	14	4	2	14	28	18	0	14	30	0	0	} Rodger's	Co. Finch & Co.	Sld. 21/8, 31/10 & 28/10/95. J. Harmers, Supt.
28493	2nd "	28	2	0	4	0	14	24	10	0	0	30	0	0			
28475	3rd "	26	3	0	6	2	21	26	3	3	0	25	2	0			
	Collective weight	85	2	14								85	2	0			
28494	Stream	9	3	14	2	2	0	11	14	3	4	9	2	0	Ordinary	"	} " 31/10 & 18/9/95 Do.
28315	Kedge	5	0	0	1	1	0	4	4	2	0	4	3	0	"	"	
	~~2nd Kedge~~																

If Patent state Name of Patentee.

CHAIN CABLES.

Number of Certificate.		Fathoms.	Size.	Test per Certificate. Tons.	Weight of Chain Cable. Supplied.	Per Rule.	Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.
11554		240	1 3/4"	47 1/8 / 55 5/8	419-3-10	416-3-0	240 × 1 3/4	Stud Link	Co. Finch & Co.	Sld. 30/10/95 J. Harmers, Supt.
11998	Iron Stream Chain ~~or Steel Wire~~	75	15/16	23 7/10 / 15 3/10	34-0-21	33-3-11	75 × 15/16	"	"	" 31/10/95 "

HAWSERS AND WARPS

	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size per Rule.
Towline	St. Wire	75	3 1/2	Tons 26	75 × 3 1/4
"	Manila	75	7		75 × 10 1/2
Hawser	St. Wire	90	3	18	90 × 3
Warp	Manila	90	5 1/2		90 × 5 1/2

Boats 3 No. 1 - 22 ft. Lifeboat, 1 - 21 ft. Gig, & 1 - 16 ft. Dingy.

Pumps, Number One pair Mills patent to holds & tank, & Fore Peak Deck Pump. Diameter of Barrel and Tail Pipe Main pumps 4 1/2" Barrels (4" Tail pipes to holds, 5" " to tank, 2 1/2" " to well), Fore Peak pump 5" Barrel, 3 1/2" Tail pipe.

Windlass is Iron (Emerson, Walker & Thompson Bros. patent) and **Capstan** Good.

Number of **Scuppers,** and number and dimensions of **Freeing Ports** Four Scuppers & Five Ports each side. Ports 26" × 20, 30" × 23, 29 × 22, 23 1/2" × 4 & 22 × 21.

Ceiling in Holds, thickness and material 2 1/2" Pitch Pine. **Ceiling 'tween Deck,** thickness and material 2" White Pine Sparring.

Cargo Hatchways.—How formed? Deep plates forming Coaming and carling - 26" above deck. **Hatches,** if strong and efficient? Yes. 3" thick.

State size **No. 1 Hatch** (Forward) 11' - 11 1/2" × 7' - 11". **No. 2 Hatch** 11' - 10" × 9' - 11 1/2". **No. 3 Hatch** 11' - 9" × 7' - 11".

Number of **Web Plates, Shifting Beams,** and **Fore** and **Afters** to each Hatch One Shifting beam & Three Fore and Afters to No. 2 Hatch and One Fore and After to each of Nos. 1 & 3 Hatches. **No. of Breasthooks** Four & deep floors **No. of Crutches** Three & deep floors.

Bulwarks, height above deck and description Height 4' - 8 1/2" - 5/20" Steel Stays of Bulb plate 8 1/2" × 20/20" - 53 feet spacing & 16/20. Main Rail, material and size Channel 8 1/2" × 3 1/2" × 6/20 with greenheart facing 5 1/2 × 3 1/2. Topgallant Rail Double hollow cope iron.

The above is a correct description.

Builder's Signature (here only.) Russell & Co. per M.R.

Surveyor's Signature T. J. House

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

Form 11.

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with the case*) M. 24/7, 14/10, 23/10 & 28/10/95, and 17/1/96.

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 the plating? a few.

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

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

This vessel has been built in accordance with the accompanying approved plans, as amended, and tracing of Midship Section forwarded on the 20th February, for the preparation of the Certificate of Class, and otherwise as required by the Rules.

The quality of material and workmanship is good.

The pumps are in efficient working order, and the gutterways have been tested by being flooded with water with satisfactory results.

The weather deck has been tested by being partly flooded with water and by a hose with satisfactory results.

The frames for one half the vessel's length amidships have been joggled in order to dispense with the lining pieces ordinarily fitted between the plating and frames, as approved per Secretary's Letter dated 23/10/95, and since specially reported upon.

This vessel has been built with a camber in the Keel of 1 1/4 ins.

Doubling plates are fitted under the sounding pipes.

Three reports on forgings herewith.

This is a Sister Vessel to the "Titania", Greenock Report 11365.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 32 ft., ~~R.Q.D. or Break~~ ft., ~~Bridge Dk.~~ ft., F'castle 26 ft. (in feet and tenths). 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 Dk. 2 Tr. B.

Official No. 105977 ; Signal Letters

How are the surfaces preserved from oxidation? Inside Portland Cement and Paint Outside Paint.

Order for Special Survey No. 1780 Date 25th July 1895

~~Order for Ordinary Survey No.~~ ~~Date~~

No. 385 in builder's yard.

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
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 and Surveyed 1895. Oct. [illegible] Nov. 1. 5. 7. 11. 12. 14. [illegible] 1896. Jan. 7. 8. 13. [illegible] Feb. [illegible]

Total No. of Visits 51

The amount of Entry Fee £ 4 : " : "
Special Survey Fee £ 51 : 12 : 6
Travelling Expenses, if any £ " : " : "

Fees applied for, 19. 2. 1896
Received by me, 20. 2. 1896

Certificate to be sent to Greenock

I am of opinion this Vessel should be Classed ✠ 100 A1 "Steel".

~~With, or~~ without Freeboard, as condition of Class.

T. J. House
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUES, FEB 25 1896

Character assigned a & cp 100 A1 Steel 1 Dk 2 Tr B

The Surveyors are requested not to write on or below the Committee's Minute.

Hull Certificate. ~~Written.~~

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