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

~~IRON OR~~ STEEL STEAMER.

No. 18394

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

Received at London Office, TUES. 23 OCT 1900

Date of completion of Report 13th Oct. 1900 *Port of* Glasgow

Date, First Survey 11 May, 1900 *Last Survey* 11 October 1900

"MACHRIE"

Rig Yawl.

ONE ~~OR TWO~~ DECKED VESSEL.

CLASS ✠ 100 A.1

Master C. Walsh.

Year of appointment (1) As master in service of owner of present vessel:—18 99 (2) As master of this vessel Oct 1900

Survey held at Bowling

On the Steel Screw Steamer

NNAGE under Tonnage Deck	173.61
of Poop	28.06
of Raised Qr. Dk. or Break..	
of Bridge House	11.35
of Forecastle Sail Home	.74
of Houses on Deck	2.05
of excess of Hatchways	10.39
above Crown of Engine Room ..	24.67
oss Tonnage	251.47
Crew Space	28.73
above Crown of Engine Room ..	24.67
NAGE FOR FEES ..	198.07
Engine Room	171.94
Navigation Spaces	9.74
gister Tonnage cut on Beam ..	41.06

	FEET.
Half Breadth (moulded)	10.75
Depth from upper part of Keel to top of Main Deck Bms. (with the normal round up of beam)	10.69
Girth of Half Midship Frame (as per Rule)	19.83
1st Number	41.27
Length on deck from after part of stem to fore part of stern post	116
2nd Number	4787.32
Proportions—Breadths to Length	5.39
Depths to Length—Main Deck to top of Keel	10.86

Built at Bowling

When built 1900 Launched 27th Sept. 1900

By whom built Scott & Sons

Owners Paton & Hendry

Managers —

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

Residence 60 St. Enoch Square Gls.

Port belonging to Glasgow

Destined Voyage Coasting *If Surveyed while Building, Afloat,* ~~or in Dry Dock~~ Yes.

	Feet.	Inches.		Feet.	Inches.		Feet.	Inches.	
NGTH on Deck as r Rule	116	0	**BREADTH**— Moulded	21	6	**DEPTH, ACTUAL**— Top of Floors to top of Main Deck Beams	9	7	No. of Decks with Flat laid one No. of Tiers of Beams one

ensions of Ship per Register, Length, 116.8 breadth, 21.5 depth, 9.45. Moulded Depth, 10 ft. 3 ins. Round of Beam, Actual — ins.

FRAMING.	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or a	Inches per Rule s Appro	20ths per Rule ved.
AME, Angles, ~~L, E or [Bars, for ⅜ length amidships~~	3	2½	6	3	2½	6
~~o. for ⅜ at each end~~						
~~o. in way of Double Bottoms at Solid Floors~~						
~~" " at intermdt. Plate~~						
tance of Frames from moulding edge to moulding edge, all fore and aft		21			21	
VERSED FRAME, Angles	2½	2½	6	2½	2½	6
EP FRAMING, depth of girder at Main Hatch		4			4	
OORS, depth and thickness of Floor Plate at mid-line for ⅜ length amidships	15	×	6/16	15	×	6/16
" in way of Engines and Boilers			8			8
" thickness at the ends of vessel			6/16			6/16
" depth at ¾ the half breadth, as per Rule		10			10	
" height extended at the Bilges		24			24	
~~OODS & BRACKETS, in Cell Dble Bottoms~~						
" Distance apart						
NTRE GIRDER, in Double Bottom, depth and thickness						
" " Angles, Top						
" " " Bottom						
DE GIRDERS, number on each side & thickness						
" Angles						
RGIN PLATE, depth (exclusive of flange) and thickness						
" Angles to Outside Plating						
NER BOTTOM PLATING, breadth and thickness of **Middle Line Strake**						
" " thickness in Engine and Boiler space						
" " " Remainder in Holds						
AMS, Main and Raised Quarter Deck, Single Angle, ~~Bulb Angle, Plate or Tee Bulb~~	4	3	6	4	2½	6
" ~~Angles on Upper Edge~~						
" Average space		21			21	
~~**AMS, Lower Deck,** Single Angle, Bulb~~ Angle, Plate or Tee Bulb						
" Angles on Upper Edge						
" Average space						
~~**AMS, Hold,** Plate or Tee Bulb~~						
" Angles on Upper Edge						
" Average space						
AMS, Poop Deck, Angle, ~~Bulb Angle, Plate~~ or Tee Bulb						
" Angles on Upper Edge						
" Average space						
AMS, Bridge or Pt. Awng. Deck, Angle, ~~Bulb Angle, Plate, or Tee Bulb~~	4	3	6	4	2½	6
" ~~Angles on Upper Edge~~						
" Average Space		42			42	
EAMS, Forecastle Deck, Angle, ~~Bulb Angle, Plate or Tee Bulb~~	5½	3	8	4½	3	7
" ~~Angles on Upper Edge~~						
" Average space		42			42	
LLARS, ~~In tween Decks,~~ Size and Spacing						
" " **Hold** " "		2½			2½	
" ~~Quarter, 'tween Dks.~~ " "						
" " ~~in Hold~~ " "						
~~**B FRAMES, In Fore Body,** No. and Spacing~~						
" " Brdth. & Thickness						
" No. of Side Stringers " "						
EB FRAMES, In E. & B. Space, No. & Spacing	One					
" " " Brdth. & Thickness	14	×	6	14	×	6
~~**EB FRAMES, In After Body,** No. and Spacing~~						
" " " Brdth. & Thickness						
" No. of Side Stringers " "						
" Size of Angles or Tee Bars to **Web Frames**						
RACKET PLATES to Stringers between Web Frames, Depth and Thickness						

FORGINGS AND CASTINGS.	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar or Side Plates depth and thickness	7 × 1¼	7 × 1¼
STEM, moulding and thickness	Do.	Do.
STERN-POST for Rudder do. do.	6 × 2½	6 × 2½
" for Propeller	Do.	Do.
MAIN PIECE of **Rudder,** diameter at head	3¾	3¾
do. at heel	3 × 3	2½ × 3

RUDDER, how constructed Single Plate 10/20ths Arms Forged to main piece

Can the Rudder be unshipped afloat? Yes.

KEELSONS AND STRINGERS.	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or a	Inches per Rule s Appro	20ths per Rule ved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate	9	×	8	9	×	8
" Rider Plate	6½	×	8	6½	×	8
" ~~Bulb Plate to Intercostal Keelson~~						
" ~~Horizontal Plates on Floors~~						
" Angles (4)	3	3	6	3	3	6
SIDE KEELSON, Angles (2)	4	3	7	4	3	7
" ~~Bulb or Plate above floors for lng.~~						
" Intercostal Plate for 3/5ths length			6			6
" Attached to outside plating with Angle	3	3	6	3	3	6
BILGE KEELSON, Angles (1)	6	3	8	6	3	8
" Bulb Plate above floors for ½ len.	7	×	8	7	×	8
" Intercostal Plate for length						
" ~~Attached to outside plating with Angle~~						
BILGE STRINGER Angles (1)	6	3	8	6	3	8
" ~~Bulb Plate for length~~						
" Intercostal Plate for length						
" Attached to outside plating with Angle						
SIDE STRINGER ~~Angles~~ Bulb Angles (2)	6	3	8	6	3	8
" Bulb or Intercostal Plate for R.R.D. lng.	9	×	7	9	×	7
" Attached to outside plating with Angle	3	3	6	3	3	6
Main and Raised Quarter Deck Stringer Plate, breadth and thickness	46		6/16	46		6/16
" Angle on ditto	3 × 3		6/16	3 × 3		6/16
" ~~Tie Plates fore & aft, outside Hatchways~~						
" Diagonal Tie Plates on Bms., No. of Pairs						
" Main Dk* ~~Iron or Steel~~ for Fwd lng.			6/16			6/16
" R. Q. Dk* ~~Iron or Steel~~ for Do. lng.			6/16			6/16
" Wood Deck, Material & thickness						
~~**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						
" Angle on ditto						
" Tie Plates						
" Deck, Material and thickness						
Bridge Deck Stringer Plate, brdth & thickness	24		5/8	24		5/8
" Angle on ditto	3 × 3		6	3 × 3		6
" Tie Plates	12		6	12		6
" Deck, Material and thickness Kauri Pine	5 × 2½			5 × 2½		
Forecastle Deck Stringer Plate, brdth & thcknss	27		6/16	27		6/16
" Angle on ditto	3 × 3		6	3 × 3		6
" Tie Plates Centre Plate	57		6	57		6
" Deck, Material and thickness P.P.	5 × 2½			5 × 2½		

* *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. 10ths or 20ths.	STIFFENERS. Horizontal. Size. Inches.	Horizontal. Spacing Inches.	Vertical. Size. Inches.	Vertical. Spacing Inches.	Single or Double Frames.	Height up.
W.T. BULKHEADS	3	3	5/8	3×2½×7/20	48	3×2½×7/20	30	Dble.	Deck
PARTITION "	1					Do	48	Single	Deck
LONGITUDINAL "	✓								

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

Are the Sluice Valves and Watertight Doors in efficient working order? none

Form No. 1A. 6-96.

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615291-0040 (1/2)

STRAKES.	PLATING. As in Ship. Amidship. Breadth. Inches.	Amidship. Thickness. 20ths	Forward. Thickness. 20ths	Aft. Thickness. 20ths	Per Rule or as Approved. Amidship. Breadth. Inches.	Thickness. 20ths	RIVETING. 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. Feet.
Flat Plate Keel (If Bar Keel, state Riveting)	Bar Keel.						Double	Lapped	1	5	Double						
Garboard or A Strake	42	7	7	7	42	7	Do.	4½	¾	3	Double	¾	2⅝	9¼	8		
B (State actual thickness in way of Double Bottom.)		7	7	7		7	Do.	4½	¾	3	Treble	¾	2⅝			7½	full
C		7	7	7		7	Do.	4½	¾	3	Do.	¾	2⅝			7½	"
D		6	5	5		6	Do.	3¾	⅝	2⅝	Do.	⅝	2¼			6	"
E		6	3	5		6	Do.	4½	¾	3	Do.	⅝	2¼			6	"
Sheer F	35	7	6	6	35	7	Single	2½	¾	3	Double	¾	2⅝	9¼	8		
~~G~~																	
~~H~~																	
~~J~~																	
~~K~~																	
~~L~~																	
~~M~~																	
~~N~~																	
~~O~~																	
~~P~~																	
Doubling ~~of Flat Plate Keel~~																	
Length and thickness ~~of Bilges~~																	
Length and thickness of Sheerstrakes	21 ft at Break.																
Length and thickness ~~of Strake below~~																	
~~Poop Sides~~																	
Raised Quarter Dk. Sides		7		6		7 & 6	—		—								
Bridge Sides		5				5											
Forecastle Sides			5			5											
Lengths of Plating	8 frame spaces.																

Write 'Sheer Strake' opposite its corresponding letter.

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 Steel Plates. Dalzell & Clydebridge Angles. Dalzell & Lanarkshire Iron Plates. Durham & Newport
Has the Steel been tested as required by the Rules Yes.

Main Stringer Plate { **Butts,** treble riveted for Half length amidship. **Straps,** ~~single, double or~~ overlapped for full length amidship.
Butts of Bilge & Side Stringers, and Tie Plates, treble or double riveted? Treb. & Dble.
Inner Bottom Plating, riveting of **Edges** ✓ **Butts** ✓
Centre Girder Butts, ✓ riveted. **Keelson Butts,** Treble riveted.
Frames, riveted through Plates with ¾ in. Rivets, about 5¼ apart.
Rivets, state whether of Iron or Steel Iron

FRAMES extend in one length from Keel to gunwale
REVERSED FRAMES on floors and frames extend from centre line to bilge stringer and deck alternately all to deck in way of main hatch.

MASTS, SPARS, &c.

	Material.	Total length.	Diameter and Thickness. At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles. Number.	Size.	Riveting. Seams.	Butts.
Lower Masts { Fore / Main / Mizen	Pitch Pine Pole Masts										
Bowsprit ✓											

Topmasts, Yards and Remainder of **Spars** P.P.
Rigging, Material and Size, **Shrouds** Steel Wire 2½" . **Stays** Fore, Steel Wire 3¼"
Sails. One Suit of fore and aft Sails ~~and the following spare sails~~

EQUIPMENT No. 5140 **LETTER** C . **TONNAGE FOR TRAWLERS** ✓ U.Dk.

ANCHORS.

Number of Certificate.	Anchors.	Weight, Ex Stock Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs	lbs.	Test, per Certificate. Tons.	Cwts.	qrs.	lbs.	Weight Required by Table 22. Cwts.	qrs.	lbs.	Description of Anchor. (Patent state Name of Patentee.)	Makers.	Where and when tested and Superintendent. (If Stockless, state Mechanical Tests.)
38498	1st Bower	7	3	0	Stockless			9	18	0	14	6	1	0	*Reliance Patent	Byers & Coy.	Sund. 11/4/00
38493	2nd "	6	2	0	Do			8	15	0	0	6	1	0	Do Do	Do	Do Do.
	3rd "																Sgd. (H. T. Walford)
	Collective weight	14	1	0								12	2	0			
	Stream	1	2	0	0	1	14	✓				1	2	0	Common		
	Kedge	0	3	0	0	1	[illegible]	✓				0	3	0			

*Cents. for Cast Steel Heads produced.

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate. Tons.	Weight of Chain Cable. Supplied.	Per Table 22.	Fathoms and Size Per Table 22.	Description.	Makers of Cables.	When and where tested, and Superintendent.
20140	135	15/16	23:7 / 15:8	60-3-2	45-3-3	135 × 13/16	Stud Link	not stated	8/3/00 Lipton Sgd. E. C. Perrin
~~Iron~~ Stream ~~Chain~~ / Steel Wire	45	2"	9			45 × 2	Steel Wire	Burton & Coy.	Glasgow.

HAWSERS AND WARPS.

	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Table 22.
Towline	Manilla	75	6		75 × 6
Hawser		90	4		90 × 4
Warp		60	4½		

Boats Two lifeboats
Pumps, Number Two @ 5" & one @ 3" Diameter of Barrel 5" & 3" State whether they are in efficient working order Yes.
Windlass is Clark Chapman & Coy's steam & hand geared **Capstan** ✓
Engine Room Skylights.—How constructed? Teak on Steel Casings
What arrangements for deadlights in bad weather? Bullseyes
Coal Bunker Openings.—How constructed? Trunk Hatch How are lids secured? Hinged covers Height above deck? 7 ft.
Number of **Scuppers,** and number and dimensions of **Freeing Ports, &c.** on each side 2 Scuppers & 3 freeing ports 30" × 18"
Ceiling in Holds, thickness and material 2½ P.P. **Ceiling 'tween Decks,** thickness and material ✓
Cargo Hatchways.—How formed? Steel coamings 7/16" **Hatches.**—If strong and efficient? Yes.
State size **No. 1 Hatch** (Forward) 29' 9" × 12-0 **No. 2 Hatch** ✓ **No. 3 Hatch** ✓ **No. 4 Hatch** ✓
Number of **Web Plates, Shifting Beams,** and **Fore** and **Afters** to each Hatch 2 Webs, 3 fore and afters.
No. of Breasthooks Two **No. of Crutches** Deep floors
Bulwarks, height above deck and description 46" Steel, Bulb plate Stays Main Rail, material and size Tyrack Section 4 × 3

The above is a correct description.
Builder's Signature (here only.) Scott & Sons
Surveyor's Signature R. Wright
Surveyor to Lloyd's Register of British and Foreign Shipping.

Form No. 14.

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with the case*)
8th Nov. 1899 M. 27th Decr. 1899 M. 26th Jan. 1900 E.
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? No
Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes.
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)? ✓ State results of tests ✓
General Remarks (State quality of workmanship, &c.)
The workmanship throughout is good. The vessel has been built in accordance with the approved plans, the Secretary's letters of the above dates, and in general conformity with the Rules for the class contemplated.

Sister Vessels. S/S. Ardbeg. S.S. Bonahaven
Gs. Report Nos 18006 18158

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. or Break 42 ft., Bridge Dk. 8 ft., F'castle 24 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
The R.Q.D. is joined to the B.D.
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. "Iron"
Official No. ; Signal Letters
How are the surfaces preserved from oxidation? Inside { Bitumastic composition in way of Boilers / Cement and Paint elsewhere Outside Paint

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

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
~~Double bottom, aft,~~			Fore peak tank,	22	21
~~Double bottom, under Engines and Boilers,~~			After peak tank,	5	7
~~Double bottom, if under Engines only,~~			Midship deep tank,	✓	
~~Double bottom, if under Boilers only,~~			Other tanks, if fitted,	✓	
~~Double bottom, forward,~~			(If necessary, furnish further information by sketch.)	✓	

* 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 Yes.

Order for Special Survey No. 3387
Date 7/6/00.
No. 145 in builder's yard
Dates of Surveys held while building: 1900:- May. 11. 15. 17. 22. 29. 31. June. 4. 7. 12. 14. 19. 22. 26. 27. July. 4. 9. 30. Aug. 1. 7. 10. 14. 30. Sep. 3. 5. 10. 11. 14. 18. 21. 26. Oct. 6. 11.
Total No. of Visits 32

The amount of Entry Fee £ 1 : :
Special £ 9 : 18 :
Certificate* £ : :
Travelling Expenses, if any £ : :
Fees applied for, 18/10/1900. Received by me, 22: 10 1900 R.W.
* Certificate to be sent to Glasgow
State whether the Vessel has been built under Special Survey Yes.
I am of opinion this Vessel should be Classed ✠ 100 A.1 "Well Deck"
With, or without Freeboard, as condition of Class without
R. Wright
Surveyor to Lloyd's Register of British and Foreign Shipping.

The Surveyors are requested not to write on or below the Committee's Minute.
Committee's Minute Glasgow. 22 OCT. 1900
Character assigned ✠ 100 A1 Steel: A & C. P.

Hull Certificate Written. 26/10/00

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