3 Decks.

~~IRON OR~~ STEEL STEAMER.

Received at London Office FRI 16 NOV 1906

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

Date of completion of report Port of Belfast No. 6216

Survey held at Belfast Date, First Survey 22nd Feby Last Survey 7th Novr 1906

On the S.S. Howth Head. Rig Schooner

TONNAGE under Tonnage Deck

Do. between Tonnage Dk. and 3rd and 4th Dk.	
Total under Upper Dk.	4226·20
Do. of Poop	22·50
Do. of Bridge House	20·68
Do. of Forecastle	41·82
Do. of Houses on Dk.	90·02
Do. of excess of Hatchways	28·08
Do. above Crown of Engine Room	10·92
Gross Tonnage	4440·22
Less Crew Space	85·20
Less above Crown of ...oom	10·92
...R Fees	4344·10
... Room	1420·87
...tion Spaces	56·79
...Tonnage	2877·36
... Beam	

THREE DECKED VESSEL.

CLASS 100 A.1.

	FEET.
Half Breadth (*moulded*)	24·00
Depth *from upper part of Keel to top of Upper Deck Beams* (*with the normal round up of beam*)	32·50
Girth *of Half Midship Frame* (*as per Rule*)	53·03
	109·53
deduct 7 feet	7·00
1st Number	102·53
Length *on deck from after part of stem to fore part of stern post*	378·16
2nd Number	38772
Proportions—*Breadth to Length*	7·8
Depth to Length—Upper Deck to top of Keel	11·63
Main Deck ditto actual	16·5

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

Master James R. Moore

Year of appointment (1) *As Master in service of owner of present vessel:*— 1904 (2) *As Master of this vessel* 18—

Built at Belfast

When built 1906 *Launched* 4th Oct 1906

By whom built Messrs Workman Clark & Co

Owners Ulster S.S. Co Ld.

Managers G. Heyn & Sons (*Where necessary to be entered in Reg. Book.*)

Residence Waring St

Port belonging to Belfast

	Feet.	Inches.		Feet.	Inches.		Feet.	Inches.	
...n Deck ...le	378	2	**BREADTH**— Moulded	48	0	**DEPTH, ACTUAL**—Top of Floors to top of Upper Dk. Beams	28	10	No. of Decks with flat laid 2
						Do. do. do. do. Main Dk. Beams	20	3	No. of Tiers of Beams 2 & Deep framing

...f Ship per Register, Length 380·4 breadth 48·4 depth 28·8. Moulded depth, ft. 31 ins. 6 To Upper Dk. Round of Upper Dk. Beam, Actual 11½ ins.

FRAMING.

	Inches in Ship	Inches in Ship.	~~16ths or~~ 20ths in Ship.	Inches per Rule Or as	Inches per Rule Approved	~~16ths or~~ 20ths per Rule ved.
...~~ngles, or T, E or~~ L Bars for ¾ length ...midships	9½	3½	13	9½	3½	13
... at each end	9½	3½	12	9½	3½	12
...y of Double Bottoms at Solid Floors	3½	3½	10·9	3½	3½	10·9
... at intermdt. Bkts.						
... Frames from moulding edge to ... edge, all fore and aft	25		✓	25		
...D FRAME, Angles Bulb Angles						
...AMING, depth of girder						
... depth and thickness of Floor Plate ... mid-line for ¾ length amidships						
...ay of Engines and Boilers						
...ness at the ends of vessel						
...h at ¾ the half breadth, as per Rule						
...ht extended at the Bilges						
... & BRACKETS in Cell Dble Bottoms			8			8
... Distance apart	25		✓	25		
...GIRDER, in Double bottom, depth ...d thickness	44		12·9	44		11·7
... Angles, Top	4	4	10·9	4	4	10·9
... ... Bottom	4½	4½	12·11	4½	4½	12·11
...DERS, number on each side & thickness	1		8	1		8
... Angles	3½	3½	8	3½	3½	8
...PLATE, depth (exclusive of flange) ...d thickness	36½		12·10	36		12·10
... Angles to Outside Plating	4	4	10	4	4	10
...OTTOM PLATING, breadth and thickness of **Middle Line Strake**	48		10·8	48		10·8
... in Engine and Boiler space		10.5	12/16			12·10
... Remainder in Holds		20 10·8·7				10·8·7
Upper Deck, ~~Single Angle, Bulb Angle, Plate or Tee Bulb.~~ Channels	8×3½×3½		12	8×3½×3½		12
Angles on upper edge						
Average space	50		✓	50		
Middle Deck, ~~Single Angle, Bulb Angle, Plate or Tee Bulb~~ Channels	10×3½×3½×14			10×3½×3½		14
Angles on upper edge						
Average space	50		✓	50		
Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb						
Angles on upper edge						
Average space						
Hold, or Orlop, Plate or Tee Bulb						
Angles on upper edge						
Average space						
...oop Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ ... Channels	7×3×3		9	6×3½×3½		9
Angles on upper edge						
Average space	50		✓	50		
...ridge Deck, ~~Angle,~~ Bulb Angle, ~~Plate or Tee Bulb~~	6	3	7	5½	3	8
Angles on upper edge						
Average space	25		✓	25		
...orecastle Deck, ~~Angle, Bulb Angle, Plate or Tee Bulb~~ Channels	8×3½×3½		8	8×3½×3½		8
Angles on upper edge						
Average space	50		✓	50		
In 'tween Deck, size and spacing	2¾ 4½ 3½		As	approved.		
... **Hold**	4 3/4 4 5 1/4			50		
... **Quarter 'tween Dks.,**	2 3/4 4 4 1/4			50		
... ... **in Hold**	4 3/4 4 6 1/4			50		
WEB-FRAMES, In Fore Body, No. and spacing						
... ... brdth. & thickness						
... No. of Side Stringers						
WEB-FRAMES, In E. & B. Space, No. & spacing	3	As	profile	plan.		
... ... brdth. & thickness	24		10	24		10
WEB-FRAMES, In After Body, No. and spacing						
... ... brdth. & thickness						
... No. of Side Stringers						
... Size of Angles or Tee Bars to **Web-Frames**	6½	4½	13	6½	4½	13
BRACKET PLATES to Stringers between Web Frames, depth and thickness						

FORGINGS or CASTINGS.

	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar or Side Plates, depth and thickness	Flat plate	
STEM, moulding and thickness	11×3½	11×3½
STERN-POST for Rudder do. do.	11×7½	11×7½
... for Propeller	11×7½	11×7½
MAIN PIECE of **Rudder,** diameter at head	10	9½
... ... do. at heel	7½	7¼

RUDDER, how constructed Single plate

Can the Rudder be unshipped afloat? Yes.

KEELSONS & STRINGERS.

	Inches in Ship.	Inches in Ship.	~~16ths or~~ 20ths in Ship.	Inches per Rule Or as	Inches per Rule Approved	~~16ths or~~ 20ths per Rule ved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate						
... Rider Plate						
... Bulb Plate to Intercostal Keelson						
... Horizontal Plates on Floors						
... Angles						
SIDE KEELSON, Angles						
... Bulb or Plate above floors, for ... lng.						
... Intercostal Plate, for ... length						
... Attached to outside Plating with Angle						
BILGE KEELSON, Angles						
... Bulb or Plate above floors, for ... lng.						
... Intercostal Plate for ... length						
... Attached to outside Plating with Angle						
BILGE STRINGER Angles						
... Bulb Plate for ... length						
... Intercostal Plate for ... length						
... Attached to outside Plating with Angle						
3 **SIDE STRINGERS,** Angles	6½	4½	13·11	6½	4½	13·11
... ~~Bulb or~~ Intercostal Plate, for full lng.			10·9			10·9
... Attached to outside plating with Angle	3½	3½	10·9	3½	3½	10·9
Upper Deck Stringer Plates, br'dth & thickness	60		10·9	59		10·9
... Angle on ditto	4½×4½		11·10	4½×4½		11·10
... Tie Plates fore and aft, outside Hatchways						
... Deck.* ~~Iron or~~ Steel, for full lng.		10·8·7			10·8·7	
... Wood Deck. Material & thickness						
Middle Deck Stringer Plate, br'dth & thickness	60		10·9	59		10·9
... Angles on ditto, No. 2	4×4		9·8	4×4		9·8
... Tie Plates outside Hatchways						
... Diagonal Tie Plates on Bms., No. of prs.						
... Deck.* ~~Iron or~~ Steel, for full lng.		10·8·7			10·8·7	
... Wood Deck. Material & thickness						
Lower Deck Stringer Plate, br'dth & thickness						
... Angles on ditto, No.						
... Tie Plates, outside Hatchways						
... Deck.* Material and thickness						
Hold, or Orlop Stringer Plate, br'dth & thckn's						
... Angles on ditto, No.						
... Tie Plates outside Hatchways						
... Deck. Material and thickness						
Poop Deck Stringer Plate, breadth & thickness	40	8·7		36	8	
... Angle on ditto	4×4	8		4×4	8	
... Tie Plates						
... Deck. Material and thickness Steel		7·6			7·6	
Bridge Deck Stringer Plate, br'dth & thickness	42	10		42	10	
... Angle on ditto	4½×4½	11		4½×4½	11	
... Tie Plates						
... Deck. Material and thickness Steel		7			7	
Forecastle Deck Stringer Plate, b'dth & th'kns	36	18		36	8	
... Angle on ditto	4×4	8		4×4	8	
... Tie Plates						
... Deck. Material and thickness P.P. 3"		6·5		9 6/16	when plated	

* *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.	STIFFENERS. Horizontal. ~~16ths or~~ 20ths. Size. Inches.	Horizontal. Spacing Inches.	Vertical. Size. Inches.	Vertical. Spacing Inches.	Single or Double Frames.	Height up.
W. T. BULKHEADS	6	6	8·7	8×3×10/20			30"	Dbl.	to Dk.
PARTITION ...				9×3½×3½×10/20	3		"	..	.
LONGITUDINAL ...				10×3½×3½×13-12/20	3		"	..	.

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

Are the ~~Sluice Valves and~~ Watertight Doors in efficient working order? Yes.

Form No. 1B. 9-96

W859 - 0154 1/2

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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)	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)	For what Length (Feet)
Flat Plate Keel (If Bar Keel, state Riveting)	46	22	14	14	46	22	Dbl	6	1	4½	Tbl	1⅛	4	2½	16/14		
Garboard or A Strake	48	15	13	14	48	15	"	5¼	7/8	3 4/7	"	1	3½			10½	Full
B (State actual thickness in way of Double Bottom.)		12	10	13		13	"	"	"	"	Quad ½L	7/8	3½			12	"
C		12	11	15		12	"	"	"	"	"	"	"			"	"
D		13	10	11		13	"	"	"	"	"	"	"			"	"
E		14	11	15		14	"	"	"	"	"	1	4			14	"
F		13	10	13		13	"	"	"	"	"	7/8	3½			12	"
G		13	10	13		13	"	"	"	"	"	"	"			"	"
H		12	9	12		12	"	"	"	"	"	"	"			"	"
J		13	10	12		13	"	"	"	"	"	"	"			"	"
K (12 in Bridge)		14	9	9		14-12	"	6	1	4½	"	1	4			14	"
Sheerstrake L (14 in B. 44)		16	11	11	44	16-14	"	"	"	"	"	1	4			"	"
M																	
N																	
O																	
P																	
Q																	
R																	
Doubling of Flat Plate Keel	Increased in lieu																
Length and thickness of Bilges																	
of Sheerstrakes	Increased in lieu																
of Strake below																	
Poop Sides				8		8	Single	2½	3/4	3⅝	Dbl	3/4	2⅝			5	"
Bridge Sides		12-11				12-11	Dbl	5¼	7/8	3 4/7	Tbl	7/8	3⅛			9	"
Forecastle Sides			8			8	Single	2½	3/4	3⅝	Dbl	3/4	2⅝			5	"

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, Plating, &c.? Siemens Martin's. David Colville Steel Co of Scotland, South Durham I&S. Glasgow I&S. Clydebridge Steel Co Dorman Long & Co Dowlais Cardiff Works. Palmers S&I Co etc

Has the Steel been tested as required by the Rules? Yes.

Upper Deck Stringer Plate { **Butts,** ~~treble~~ quad riveted for half length amidship. **Straps,** ~~single, double or~~ overlapped for full length amidship.

Middle Deck Stringer Plate { **Butts,** treble riveted for full length amidship. **Straps,** ~~single, double or~~ overlapped for full length amidship.

Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? Tbl & Dbl.

Inner Bottom Plating, riveting of **Edges** Dbl & Sgl **Butts** Dbl

Centre Girder Butts, Tbl riveted **Keelson Butts,** Tbl riveted.

Frames, riveted through Plates with 1 & 7/8 in. Rivets, about 7 to 4¾ apart.

Rivets, state whether Iron or Steel Iron

FRAMES extend in one length from centre girder to margin plate & from margin plate to gunwale.

REVERSED FRAMES on floors and frames extend from centre girder to margin plate and Bulb Angle frames.

MASTS, SPARS, &c.

Lower Masts	Material.	Total Length.	Diameter and Thickness: At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles: Number.	Size.	Riveting: Seams.	Butts.
Fore	Steel	56-0	24×7/20	24×7/20	17×6/20	Wood poles	2	3	3×3×7/20	Sgl.	Tbl.
Main	Do	56-0	24×7/20	24×7/20	17×6/20	Do	2	3	3×3×7/20	"	"
Mizen											

Bowsprit

Topmasts, Yards and Remainder of **Spars** Pitch pine

Rigging, Material and Size, **Shrouds** 4" Steel wire **Stays** 4"-3"-2¾" Steel wire

Sails. One Suit of fore & aft Sails, and the following spare sails —

EQUIPMENT No. 43962 **LETTER** J. **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. (If Patent state name of Patentee.)	Makers.	Where and when tested and Superintendent. (If Stockless, state Mechanical Tests.)
8484	1st Bower	60	1	14	Stockless			48	12	2	0	60	0	0	Byers Stockless	W L Byers & Co	LPHS 24/8/06
8465	2nd	60	0	7	"			48	10	0	0	60	0	0	"	"	" 21/8/06
8458	3rd	50	3	0	"			42	16	3	14	50	2	0	"	"	" 20/8/06
	4th																W. J. Relf
	Collective weight	171	0	21								170	2	0			
6256	Stream	16	1	0	4	0	7	17	10	0	0	16	1	0	Rodgers	—	LPHBC 24/9/06
6257	Kedge	7	0	0	1	3	0	9	5	0	0	7	0	0	"	—	" 24/9/06 G. W. Penn

Hammer drop & bend tests

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.
6128	270	2 3/16	86⅛ 120½	650-1-0	645-3-0	270×2 3/16	Stud	Brown Lenox & Co	L.P.H.B.C. 19/9/06 G. W. Penn
~~Iron~~ Stream ~~Chain~~ or Steel Wire	90	4¾	47			90×4¾			

HAWSERS AND WARPS.

Material.		Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size per Table 22.
Towline		120	4¾	49 4/7	120×4¾
Hawser	2 No	90	3"	18"	90×8" 2 No
Warp	4 No	90	7"	Man.	90×7" 2 No.

Boats 2 - 25 ft life boats 1. 18 ft cutter 1 18 ft gig

Pumps, Number One 4" lift & One Downton Diameter of Barrel State whether they are in efficient working order Yes

Windlass is Iron patent **Capstan**

Engine Room Skylights.—How constructed? Steel coamings & shutters

What arrangements for deadlights in bad weather? Glass bullseyes.

Coal Bunker Openings.—How constructed? Steel coamings How are lids secured? Battened Height above deck? 18"

Number of **Scuppers,** and numbers and dimensions of **Freeing Ports, &c.** 6 Scuppers 9 freeing ports 5-0×1-3 ~~each side~~

Ceiling in Holds, thickness and material 2½ W.P. over limbers only **Ceiling 'tween Decks,** thickness and material 2" W.P.

Cargo Hatchways.—How formed? Steel coamings **Hatches,** If strong and efficient? Yes.

State size **No. 1 Hatch** (Forward) 20-10 × 14-6 **No. 2 Hatch** 25×15 **No. 3 Hatch** 25×14-6 **No. 4 Hatch** 20-10×14-6

Number of **Web Plates, Shifting Beams** and **Fore** and **Afters** to each Hatch Nos 1 & 4 3 Webs. Nos 2 & 3 3 Webs & 2 Beams

Hatches fitted fore and aft. **No. of Breasthooks** 6 **No. of Crutches** 3 & Deep floors

Bulwarks, height above deck and description Steel plates 5/20. Bulb plate stays Main Rail, material and size 6×3½×9/20 Bulb Angle

The above is a correct description. PRO WORKMAN, CLARK & CO., LIMITED. [signature] SECRETARY.

Builder's Signature (here only)

Surveyor's Signature E. J. Milton

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

Form No. 1B.

Correspondence.—State dates and initials of letters respecting this case (*Reference should be made to any correspondence connected with this case*) M. 12.1.06. 6.2.06. 23.2.06. 21.3.06. 28.3.06. 1.5.06. 11.5.06. 23.5.06.

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

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 plating? A few.

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 Satisfactory

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

General Remarks (State quality of workmanship, &c.) This vessel has been built in accordance with the Rules, the Approved Plans and the Secretary's Letters quoted above.
The workmanship and materials are good throughout.
Close ceiling has been fitted over the limbers only, in accordance with the Owners specification.

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

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 36-9 ft., R.Q.D. or Break ft., Bridge Dk. 105 ft., F'castle 36-9 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated Not joined.

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) 2 Dks (Stl) and Deep framing

Official No. 124661; 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 Cell. D.B.

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	120-10	300	Fore peak tank,		
Double bottom, under Engines and Boilers,	43-9	140	After peak tank,		
Double bottom, if under Engines only,			Midship deep tank,	29-2	780
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,	162-6	410 (850)	(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. 512 Date 9th June 1906 No. 237 in builder's yard.

Dates of Surveys held while building: 1906. Feb 22. Mar 8. 9. 13. 27 April 3. 19. 23, 25, 26, 27. May 1. 8, 10. 11. 14. 18, 21. 22. 23 25, 28, 30. June 5, 8. 11. 13, 22. 25. 28. July 24. 26. 30. Aug 1. 3. 7. 10. 13. 15, 16. 22, 28. 30 31. Sep 3. 4. 6, 10. 12. 18, 19. 20, 21. 25, 26, 27, 28. Oct 1. 2. 4, 8. 9. 10, 12, 13, 16, 17. 18 19, 22, 24. 26, 29. 31. Nov. 1, 5, 6, 7.

Total No. of Visits 78

The amount of Entry Fee £ 5 : 0 : 0
Special Survey Fee £ 133 : 12 : 0
Travelling Expenses, if any £ : :

Fees applied for, 14th Nov 1906
Received by me, 7. 1. 1907

Certificate to be sent to This Office

State whether the Vessel has been built under Special Survey Yes.

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

With, or without Freeboard, as condition of Class Without

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

Committee's Minute TUES. NOV 20 1906

Character assigned 100 A1 (Stl)

Lloyd's ascp + hmc 11-06

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

W859 - 0154 2/2

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