

State if Report is sent on the Machinery of the Vessel.....YES

Survey held at PORT-GLASGOW. Date First Survey 26<sup>th</sup> October 1928. Last Survey 3<sup>rd</sup> September 1929.

SINGLE SCREW "GRYFEVALE"

FULL SCANTLING

State Type of Erections *POOP, BRIDGE & FOC/E*

CLASS  100A1

State if with freeboard } No  
as condition of Class }

Built at PORT - GLASGOW

**Length** from fore part of stem to after part of stern } L 384.0  
post on summer L.W.L. See Sec. 3 (1a) }

Launched 26<sup>TH</sup> JUNE 1929 Yard No. 826

**Total** *#197-#0*

**Breadth** (*greatest moulded*) ..... **B** 53.25

Builders LITHGOWS LIMITED

Gross Tonnage 4423.88

**Depth,** at middle of length from top of keel to top  
of beam at side of uppermost continuous  
deck. See Sec. 3 (1c) ..... } **D** 27.5

Owners THE GRYFEVALE STEAMSHIP COMPANY LTD

**Register Tonnage** 2762.39

1st Longitudinal Number (L x D).....= 10560

Managers *ANDREW CRAWFORD & Co L<sup>d</sup>*

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

**REGISTERED DIMENSIONS.**  
FEET.

2nd Numeral L  $\times$  (B + D) ..... = 31008

Framing Depth "d," at middle of length. See } E&B SPACE 15-84  
 Sec. 3 (1d) ..... } 23-68

Residence 166 BUCHANAN ST GLASGOW.

**Length** 385.0

**Proportions**—Depth to Length—Uppermost continuous deck to top of keel ..... } 13.96

Port of Registry GLASGOW.

Breadth 53.5

Do. Long Bridge to top } 10.89  
of keel }

*If surveyed while building, afloat, or in dry dock*

**Depth** 25.2

**Draught Moulded** .....

# BUILDING & AFLOAT.

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b> .....	27"	✓	<b>Bracket Floors, Frame</b> ..... <i>ANGLE</i> .....	6 3½ 37	✓
" " from ¾ length to Collision bulkhead.....	27"	✓	" " Reversed Frame ..... <i>ANGLE</i> .....	5½ 3 37	✓
" " in peaks.....	24"	✓	" " Vertical Struts ..... <i>1 ANGLE 2 CHANNEL</i> .....	5½ 3 37 9 x 3 x 3 x 38	✓
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	41	50
<b>Frame Amidships, Angle, [ or ]</b> ..... <i>N.B.S.</i>	12 3½ 44	✓	" " top Angles .....	3 3 49	✓
" " Extends up to .....	UPPER DS	✓	" " bottom Angles .....	4 4 54	✓
<b>FRAMES IN E &amp; B. SPACE</b>			<b>Side Girders, No. each side and thickness</b> .....	1 2 37	✓
<b>Reversed Frame Amidships, Angle, [ or ]</b> ..... <i>N.B.S.</i>	9 3½ 41	✓	<b>Margin Plate depth (excl. of flange) and thickness</b> .....	40	47
" " Extends up to ...	2ND DECK.	✓	" " Vertical Angle to Tank side	3½ 3½ 43	✓
<b>TWEEN DE FRAMES IN WAY OF E &amp; B. SPACE</b>	6½ 3½ 42	✓	Bracket abaft ½ len. from stem <i>EXCEPT IN E &amp; B. SPACE</i>	5 5 51	✓
<b>Depth of Framing Girder</b> .....	✓	✓	Vertical Angle to Tank side	3½ 3½ 43	✓
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]</b> .....	✓	✓	Bracket forward ½ len. from stem	CONT PLATE 37	✓
" " <b>Second 'tween Decks, Angle, [ or ]</b> .....	✓	✓	Gussets, spacing and scantling abaft ½ len. from stem <i>EXCEPT IN E &amp; B. SPACE</i>	CONT PLATE 37	✓
" " <b>Third</b> " " " " .....	✓	✓	Gussets, spacing and scantling forward ½ len. from stem	76	43
<b>Framing in Peaks, Angle or [ or ]</b> .....	7 3½ 42	✓	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	75"	47 60"
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b> .....	7/8 R 2 6½"	✓	<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b> .....	YES.	✓	Breadth and thickness of Middle Line Strake ...	75"	47 60"
<b>FRAMING ARRANGEMENTS (Sec. 7), state system and particulars</b> .....	WEB FRAME SYSTEM. 3 WEBS ABAFT COLLISION SHE 2 4 STRINGERS BELOW UPPER DS AS PER APPROVED PLAN.	✓	Thickness of remainder in Holds .....		40
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b> .....	DOUBLE FRAMES TO FLOORS FORWARD OF 3/8 LTH AND ADDITIONAL INTER-GIRDERS IN DOUBLE BOTTOM AS PER APPROVED PLAN.	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room? ... <i>YES</i> .....	TANK TOP 48 E-S 55 B-S.	✓
<b>DOUBLE BOTTOM.</b>			<b>BEAMS.</b>		
<b>Frames, Depth and thickness at mid-line in Holds</b> .....			<b>Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]</b> .....	10 3½ 44	✓
Height of Brackets at side above base line at toe of frame .....			" " in way of Bridge, Angle, [ or ] .....	10 3½ 46	✓
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b> .....			Spacing .....	EVERY FRAME.	✓
" " Through Plate or Intercoastal Plate ...			<b>Second Deck, amidships, Angle, [ or ]</b> .....	8 3 38	✓
" " Foundation Plate on Floors .....			Spacing .....	EVERY FRAME.	✓
" " Flat Plate Keel Angles			<b>Third Deck, amidships, Angle, [ or ]</b> .....		
<b>Side Keelsons, No. each side</b> .....			Spacing .....		
" " thickness of Intercoastal Plate ...			<b>Fourth Deck, amidships, Angle, [ or ]</b> .....		
" " Angles			Spacing .....		
<b>DOUBLE BOTTOM.</b>			<b>Poop Deck, Angle, [ or ]</b> ..... <i>N.B.S.</i>	8½ 3 44	✓
<b>Solid Floors, thickness and spacing</b> .....	37 EVERY 3RD	✓	Spacing .....	ALT FRAMES.	✓
" " Are Frame and Reversed Frame joggled? .....	YES.	✓	<b>Bridge Deck, Angle, [ or ]</b> ..... <i>N.B.S.</i>	8 3 47	✓
<b>Bracket Floors, breadth and thickness at middle line</b> .....	31 37	✓	Spacing .....	EVERY FRAME.	✓
" " breadth and thickness at margin plate .....	31 37	✓	<b>Forecastle Deck, Angle, [ or ]</b> ..... <i>N.B.S.</i>	9 3 48	✓
			Spacing .....	ALT FRAMES.	✓



# PILLARS AND DECKS.

	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>	ONE ROW.			✓	Stringer Plate, breadth and thickness in way of Bridge <b>BOILER HATCH</b> .....	52"	1'0	✓	
<b>BRIDGE</b>					Thickness of Plating abreast <b>ENG HATCH</b> Deck openings in way of Wells.....		30	✓	
in 'tween Decks, Size and Spacing.....	2 1/4 DIA & 5H			✓	Thickness of Plating abreast Deck openings in way of Bridge.....		✓		
"    "    "    "    "	AND AS APPD.			✓	Thickness of Plating within line of openings...		✓		
in Holds    "    "	CENTRE LINE BHD.			✓	If Sheathed, material and thickness.....		✓		
"    "    "    "    "					<b>Third Deck.</b>				
<b>Centre Line Bulkhead.</b>					Stringer Plate, breadth and thickness.....		✓		
Stiffeners and Spacing.....	11 x 3 1/2 x 44 B.A. ON ALT BEAMS				If Plated, state thickness.....		✓		
Plating, thickness of.....	30			✓	<b>Fourth Deck.</b>				
<b>STRINGERS AND DECKS.</b>					Stringer Plate, breadth and thickness.....		✓		
<b>Uppermost Continuous Deck.</b>					If Plated, state thickness.....		✓		
Stringer Plate, breadth and thickness in Wells	66		75	✓	<b>Poop Deck.</b>				
"    "    "    "    " in way of Bridge	72		42	✓	Stringer Plate, breadth and thickness.....	34	34	✓	
"    Angle in Wells.....	6	6	74	✓	Plating, <del>Sheathing, material and</del> thickness...		34	✓	
Thickness of Plating abreast Deck openings in way of Wells.....	FORW 71 AFT 66			✓	<b>Bridge Deck.</b>				
Thickness of Plating abreast Deck openings in way of Bridge.....	AT N° 3 HATCH 41			✓	Stringer Plate, breadth and thickness.....	60	AT N° 3 HATCH 63	✓	
Thickness of Plating within line of openings...	WELLS 41 BRIDGE 32			✓	Plating, <del>Sheathing, material and</del> thickness...		AT N° 3 HATCH 57	✓	49
If Sheathed, material and thickness.....	✓				<b>Forecastle Deck.</b>				
<b>Second Deck. (E &amp; B SPACE ONLY).</b>					Stringer Plate, breadth and thickness.....	34	34	✓	
Stringer Plate, breadth and thickness in Wells...	52"		34	✓	Plating, Sheathing, material and thickness...		34 AND SHEATHED WITH 5" x 2 1/2" P.P.	✓	

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>ORDINARY.</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL .....	✓ 48½	✓ 73	✓ 65	✓ 65		DOUBLE	7/8	3 3/8	✓ 4R-3R	1"	✓ 4"	LAPPED
„ <del>DBLE.</del> (if any)												
BOTTOM PLATING, No. of Strakes .....4.....)		✓ 57	✓ 45	✓ 45		"	"	"	✓ 3R	7/8	✓ 3½	"
BILGE PLATING, No. of Strakes .....1.....)		✓ 57	✓ 45	✓ 45		"	"	"	✓ "	"	"	"
SIDE PLATING, No. of Strakes .....3.....)		✓ 57	✓ 43	✓ 43		"	"	"	✓ "	"	"	"
UPPER DECK, Sheer- strake in Wells.....)	50"	✓ 81	✓ 43	✓ 43		"	1"	3 6/7	✓ 4R-3R.	1"	✓ 4"	"
UPPER DECK, Sheer- strake in Bridge ...)		✓ 60				"	7/8	3 3/8	✓ 3R	7/8	✓ 3½	"
STRAKE BELOW Sheer- strake in Wells.....)	69	✓ 69	✓ 43	✓ 43		"	"	"	✓ 4R-3R	7/8	✓ 3½	"
STRAKE BELOW Sheer- strake in Bridge ...)		✓ 57				"	"	"	✓ 3R	7/8	✓ 3½	"
POOP SIDE PLATING .....				38		SINGLE	3/4	3"	✓ 1R	3/4	✓ 2 5/8	"
BRIDGE SIDE PLATING ...		✓ 60	60			DOUBLE	7/8	3 3/8	✓ 3R	7/8	✓ 3½	"
FOREC'TLE SIDE PLATING			40			SINGLE	3/4	3"	✓ 1R	3/4	✓ 2 5/8	"

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	6
Extending to Upper Deck (Sec. 3 c).....	6
"    Deck next below.....	✓
As per Rule.....	6

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....	✓			
<b>STEM</b> .....	ROLLED STEEL BAR.	9" x 2 1/2"	PORTLAND FORGE	
<b>STERN FRAME</b>	Propeller Post.....	CASTING. 10" x 7 1/4"	OTTO GRUSON & CO.	
	Rudder.....	" 9" x 7 1/4"		
<b>RUDDER—A x D</b> .....		458.6		
<b>Speed of Vessel</b> UNDER 10K...				
<b>RUDDER</b> mainpiece at head...	FORGING.	9 1/2"	HITKOWITZER BERGHAU & EISENH.	
"    "    heel...		7 1/4"		
how constructed.....		BUILT FORGING.		
double or single plate		SINGLE PLATE 1'06"		
coupling, vertical or horizontal.....		VERTICAL.		

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKHD.</b> Upper 'tween decks					
"    "    Second    "					
"    "    Third    "					
"    "    Holds.....		48-26 7 1/2 x 3 x 38	30"	24" DECK & 14" HATCH	15 1/2 x 34 1/2 x 3"
<b>COLLISION</b> (in Hold).....		50-30 11 x 3 1/2 x 50	24"	W.T. FLAT & BOTTOM OF CHAIN LOCKER	
<b>AFTER PEAK</b> .....		50-30 7 x 3 x 38	24"	TUNNEL RECESS & 25" BOX BEAMS.	

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) OPEN HEARTH PROCESS.
	STEEL COMPANY OF SCOTLAND L <sup>d</sup> ; JAMES DUNLOP & CO L <sup>d</sup> ; STEWARTS & LLOYD L <sup>d</sup> ; LANARKSHIRE STEEL CO L <sup>d</sup> ; DAVID COLVILLE & SONS L <sup>d</sup> ; SKINNINGAROE IRON WORKS; CONSETT IRON CO L <sup>d</sup> ;
	Has the Steel been tested as required by the Rules? YES.



EQUIPMENT No. 33115											LETTER 4	ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
32122	1st Bower ...	60	3	7	STOCKLESS			48	17	2	0	60 ✓	BYERS IMPROVED	✓	SUNDERLAND 30-5-29 J. H. BUTLER.	
32067	2nd „ ...	60	0	14				48	10	0	0	60 ✓	D <sup>2</sup>	✓	D <sup>2</sup> 13-5-29.	
32117	3rd „ ...	51	0	14				43	1	2	7	50½	D <sup>2</sup>	✓	D <sup>2</sup> 29-5-29	
	Collective weight.	172	0	7	✓							170½ ✓				
17789	Stream .....	16	2	0	✓	4	1	7	✓	17	16	0	0	16¼ ✓	COMMON.	R. SYKES & SONS / R CARDIFF 25-2-29 A. JONES.

CHAIN CABLES.										HAWSERS AND WARPS.							
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Tons.	Length.
	Fathoms.	Ins.	Tons.		Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.		Fathoms.	Ins.
32808	270	2 <sup>3</sup> / <sub>16</sub>	86 <sup>1</sup> / <sub>8</sub>	120 <sup>1</sup> / <sub>2</sub>	657-3-0	645 <sup>3</sup> / <sub>4</sub>	270	2 <sup>3</sup> / <sub>16</sub>	STUD LINK.	R. SYKES & SONS <sup>L</sup> <sup>D</sup>	CARDIFF 22-2-29 A. JONES.	TOWLINE...	120	4 <sup>3</sup> / <sub>4</sub>	47	120	4 <sup>3</sup> / <sub>4</sub>
												HAWSERS & WARPS	2290	2 <sup>3</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>2</sub>	2290	2 <sup>3</sup> / <sub>4</sub>
												"	2290	2 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	2290	2 <sup>1</sup> / <sub>2</sub>
<del>Iron</del> Stream Cable Steel Wire	90	4 <sup>3</sup> / <sub>4</sub>	47				90	4 <sup>3</sup> / <sub>4</sub>	G.S.M.			"					

Steering Gear, Steam BY M<sup>S</sup> GREGOR PORT GLASGOW. Steering Gear, Hand BY RELIEVING TACKLES LED TO POOP NINCH.

Boats 2 LIFEBOATS. 1919. 10 DINGHY. Steering Chains, Size and Test 1 3/8 SHORT LINK. 22 5/8 TONS. Windlass STEAM BY CLARKE CHAPMAN & CO

Ceiling in Holds, thickness and material 2 1/2" W.P. UNDER HATCHES ONLY. Cargo Battens, thickness, material and spacing 6" 2" W.P. SPACED 9"

Cargo Hatchways.-(Upper Deck) STEEL PLATES & ANGLES. Thickness of Hatches 2 1/2" SOLID COVERS.

Size of No. 1 Hatchway (Forward) 31'-6" x 22'-0" No. 2 27'-0" x 22'-0" No. 3 20'-3" x 22'-0" No. 4 31'-6" x 22'-0" No. 5 29'-3" x 22'-0" No. 6 ✓

Number of Shifting Beams and Fore and Afters 6 BEAMS IN NO. 1 & 4 HATCHES; 5 BEAMS IN NO. 2 & 5 HATCHES; 3 BEAMS IN NO. 3 HATCH;

Builder's Signature FOR LITHGOWS LIMITED. R. Campbell.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel ✓ (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo ✓ The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the approved Plans & in general conformity with the Society's Rules for the class contemplated.

The workmanship is good & the materials used in the vessel's construction are of good quality.

All the double bottom tanks, fore peak tank, & the after peak tank were tested as required by the Rules & found satisfactory.

Weather decks, Shaft Tunnel & W.T. Bulkheads were loose tested & found satisfactory.

The Freeboard was verified & the marks cut in on vessel's sides.

The amount of Entry Fee ..... £ 8 : 0 : 0 Fees applied for,  
Special Survey Fee .... £ 296 : 4 : 0 4<sup>TH</sup> SEP. 1929  
FREEBOARD.  
Travelling Expenses, if any £ 9 : 3 : 4 Received by me,  
5<sup>TH</sup> SEPTEMBER 1929.

I am of opinion the Vessel should be Classed **100A1**

State whether the Vessel has been built under Special Survey **YES.**

Signature **R. Dundas**  
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to **GREENOCK.** Date of issue **13/9/29**

GLASGOW  
Committee's Minute **10 SEP 1929**

Character assigned **100A1**

**9.29.**  
**Lloyds A+C.P.**

**+ LMC 9.29**  
**72.**



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Lloyd's Register  
Foundation

0222 212



GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

— List of Plans. —

Midship Section; Profile & Decks; Rudder; Sternframe; N. T. Bulkheads; upper Deck Plating at Bridge Ends; Tunnel Plan; Cargo Hatches; Pumping Arrangements. Margin Connections in E. B. Space; Strengthening in N. Bottom forward; Midship Section; Profile & Decks (as built).

Forging Reports: Sternframe; Rudder; Quadrant;

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	WEIGHT HEAD & PIN. 38 - 1 - 7	SURV INITS K. H.	Nº CERT 6421	DATE OF TEST. 14.5.29.
	2nd „	39 - 3 - 0	K. H.	6360	26.4.29
	3rd „	34 - 1 - 0	J. L.	7059	13.7.28

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 30.5 ft., R.Q.D. ✓ ft., Bridge 238.5 ft., Forecastle 40.75 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 DK (STL) & 2<sup>nd</sup> D<sup>g</sup> (STL) IN WAY OF E & B SPACE.

Official No. 160269; Signal Letters Is bottom of Vessel coated with cement ✓ if not give particulars of composition PORTLAND CEMENT IN D. B. TANK UNDER BOILERS AND IN PEAKS; ELSEWHERE CEMENT FILLETS;

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	119.25	339	Fore peak tank,		114
Double bottom, under Engines and Boilers,	18.0	71	After peak tank,		145
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only, DRY TANK.	20.25	✓	Deep tank, forward,		
Double bottom, forward,	173.25	576	Other tanks, if fitted,		
	Total capacity of double bottom	986	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 3266

Date 6th September, 1928.

Dates of Surveys held while building

(1928) Oct. 26. Nov. 4. 13. 22. 26. Dec. 3. 4. 12. 19. 21. 24. 26. (1929) Jan. 9. 14. 16. 18. 22. Feb. 1. 4. 6. 13. 18. 26. Mar. 15. 18. 19. 25. 29. April 9. 12. 23. 26. 30. May 3. 9. 21. 23. 28. 30. 31. June 4. 5. 6. 4. 11. 13. 14. 18. 19. 20. 26. July 1. 19. 24. 30. Aug. 5. 6. 12. 20. 28. Sept 3.

Total No. of Visits 61.