

15th by Rev 7/7/76
Last Survey Schwanj 5th 1846

argue. "Gwrtheyrn Castle"

Master Owen

Built at Sunderland

When built 1875. Launched 12th Jan^y 1876

By whom built Osbourn, Graham

Owners Robert Rees. Kevin
N.W.

Port belonging to Carnarvon

Destined Voyage not known
and

and
If Surveyed while Building, Afloat, ~~or in Dry Dock.~~

ONE, OR TWO DECKED, THREE DECKED VESSEL		
SPAR, OR AWNING DECKED VESSEL.		
HALF BREADTH (moulded)		^{Fect.} 15 75
DEPTH from upper part of Keel to top of Upper Deck Beams		21 04
GIRTH of Half Midship Frame (as per Rule)		31 89
1st NUMBER		68 68
1st NUMBER, if a THREE-DECKED VESSEL		
	[deduct 7 feet	
LENGTH		180
2nd NUMBER		12362
PROPORTIONS Breadths to Length	<i>Under</i>	6
Depths to Length—Upper Deck to Keel	<i>under</i>	10
Main Deck ditto		<i>v</i>

Official Number

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 MBER
 RTIONS: Breadths to Length
 Length—Upper Deck to Keel
 Main Deck ditto

LENGTH on deck as per Rule ...	Feet.	Inches.	BREADTH— Moulded... ..	Feet.	Inches.	DEPTH top of Floors to Upper Deck Beams Do. do. Main Deck Beams.....	Feet.	Inches.	Power of Engines	Horse.	N ^o . of Decks with flat laid <u>1</u>
	180	"		31	6		19	4			N ^o . of Tiers of Beams <u>3</u>
											Inches. 16ths Inches. 16ths

Dimensions of Ship per Register, length, 191.7 breadth, 31.8 depth, 19.25

	Inches in Ship.	Inches per Rule.
KEEL, depth and thickness	8 x 2 3/8	8 x 2 3/8
STEM, moulding and thickness... ..	7 1/2 x 2 3/8	7 x 2 3/8
STERN-POST for Rudder do. do.	7 1/8 x 2 7/16	7 x 2 3/8
for Propeller	-	22
Distance of Frames from moulding edge to } moulding edge, all fore and aft	22	(Class 100 A.)
FRAMES, Angle Iron, for 3/4 length amidships ...	Inches. In Ship. 4 1/2 3	16ths. In Ship. 7 1/8 4 1/2
Do. for 1/2 at each end	4 1/2 3	4 1/2 3
REVERSED FRAMES, Angle Iron	3 1/4 3	7 1/8 3
FLOORS, depth and thickness of Floor Plate } at mid line for half length amidships ... }	- 22	8 1/8 - 21
thickness at the ends of vessel	- -	7 1/8 -
depth at 3/4 the half-bdth. as per Rule ...	10 1/2 -	10 1/2 -
height extended at the Bilges... ..	4 1/2 -	4 1/2 -
BEAMS, Upper, Spar, or Arming Deck } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }	- 7 1/2	7 1/8 7 1/2
Single or double Angle Iron on Upper edge ...	3 3	6 1/8 3 3
Average space... ..	4 1/4 -	4 1/4 -
BEAMS, Main, or Middle Deck } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }	- 7 1/2	7 1/8 7 1/2
Single, or double Angle Iron, on Upper Edge ...	3 3	6 1/8 3 3
Average space... ..	4 1/4 -	4 1/4 -
BEAMS, Lower Deck, Hold, or Orlop } Single or d'ble Ang. Iron, Plate or Tee Bulb Iron }	7 1/2 7 1/8	7 1/2 7 1/8
Single or double Angle Iron on Upper Edge ...	3 3	6 1/8 3 3
Average space... ..	4 1/4 -	4 1/4 -
KEELSONS Centre line single or double plate, } Standing or Floor Plates ... }	- 13	17 1/8 13 17 1/8
" Rider Plate	- 10	17 1/8 9 3/4 17 1/8
" Bulb Plate to Intercoastal Keelson ...	4 1/2 3 1/2	7 1/8 4 1/2 3 1/2 7 1/8
" Angle Irons	- -	6 1/8 -
" Double Angle Iron Side Keelson ...	2 1/2 2 1/2	5 1/8 No Rule
" Side Intercoastal Plates ...	- -	- -
" do. Angle Irons ...	- -	- -
" Attached to outside plating with angle iron	- -	- -
BILGE Angle Irons	4 1/2 3 1/2	7 1/8 4 1/2 3 1/2 7 1/8
" do. Bulb Iron	- -	- -
" do. Intercoastal plates riveted to plating for _____ length	- -	- -
BILGE STRINGER Angle Irons	4 1/2 3 1/2	7 1/8 4 1/2 3 1/2 7 1/8
Intercoastal plates riveted to plating for _____ length.	- -	- -
SIDE STRINGER Angle Irons	4 1/2 3 1/2	7 1/8 4 1/2 3 1/2 7 1/8
Transoms, material. Knight-heads. Hawse Timbers.	-	-
Windlass	-	-
Pall Bitt	-	-

Flat Keel Plates, breadth and thickness...	32	10	32	10
PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges of doubling at Bilge, or increased thickness, and length applied ...	✓	✓	8.9	8.9
fm up. part of Bilge to lr. edge of Sh'rstrake	✓	✓	8.9	8.9
Main Sheerstrake, breadth and thickness of d'bling at Sh'rstrake, & length applied from Mn. to Up'r. or Spar Dk. Sh'rstrake.	36	10	36	10
Up. or Spar Dk Sh'rstrake, brdth & thickness	✓	✓	✓	✓
Butt Straps to outside plating, breadth & thickness	9 1/2	16 1/2	8.11	9 1/2
Lengths of Plating ...	6 spaces	6 spaces	6 spaces	6 spaces
Shifts of Plating, and Stringers...	3 spaces	3 spaces	3 spaces	3 spaces
Gunwale Plate on ends of Awning, Spar, or Upper Deck Beams, breadth and thickness...	36	8	36	8
Angle Iron on ditto ...	4 1/2	3 1/2	7	4 1/2
Tie Plates fore and aft, outside Hatchways ...	10	8	10	8
Diagonal Tie Plates on Beams No. of Pairs,	✓	✓	✓	✓
Planksheer material and scantling ...	✓	✓	✓	✓
Waterways do. do. ...	Butt.	✓	✓	✓
Flat of Upper Deck do. do. ...	3 1/2	3 1/2	3 1/2	3 1/2
How fastened to Beams ...	Gal. Iron	Gal. Iron	Gal. Iron	Gal. Iron
Stringer Plate on ends of Main or Middle Deck Beams, breadth and thickness ...	✓	✓	✓	✓
Is the Stringer Plate attached to the outside plating?	✓	✓	✓	✓
Angle Irons on ditto, No. ...	✓	✓	✓	✓
Tie Plates, outside Hatchways ...	✓	✓	✓	✓
Diagonal Tie Plates on Beams, No. of pairs	✓	✓	✓	✓
Waterways materials and scantlings ...	✓	✓	✓	✓
Flat of Middle Deck do. do. ...	✓	✓	✓	✓
How fastened to Beams ...	✓	✓	✓	✓
Stringer Plates on ends of Lower Deck, Hold or Orlop Beams ...	27	7	27	7
Is the Stringer Plate attached to the outside plating?	yes	yes	yes	yes
Angle Irons on ditto, No. 2 ...	3 1/2	3 1/2	7	3 1/2
Stringer or Tie Plates, outside Hatchways ...	10	8	10	8
Flat of Lower Deck ...	✓	✓	✓	✓
Ceiling betwixt Decks, thickness and material in hold do. do. ...	5 plating	5 plating	5 plating	5 plating
Main piece of Rudder, diameter at head do. ...	2 1/2	2 1/2	2 1/2	2 1/2
do. at heel ...	2 3/4	2 3/4	2 3/4	2 3/4
Can the Rudder be unshipped afloat?	yes	yes	yes	yes
Bulkheads No. one Thickness of	✓	✓	6/6	6/6
Height up	20	20	20	20
How secured to sides of ship	Double Frames	Double Frames	Double Frames	Double Frames
Size of Vertical Angle Irons	3 1/2 x 3 1/2	3 1/2 x 3 1/2	3 1/2 x 3 1/2	3 1/2 x 3 1/2
and distance apart	30	30	30	30
ins.	ins.	ins.	ins.	ins.
Are the outside Plates doubled two spaces of Frames in length?	yes	yes	yes	yes

The **FRAMES** extend in one length from keel to Cumvate Riveted through plates with 3/4 in. Rivets, about 6 apart.

The **REVERSED ANGLE IRONS** on floors and frames extend from half middle line to above keel, deck, engine and to Cumvate alternately

KEELSONS. Are the various lengths of Plates and Angle Irons properly connected? Yes. And butts properly shifted? Yes.

PLATING. Garboard, double riveted to Keel, with rivets 1 in. diameter, averaging 5 ins. from centre to centre.

Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets $\frac{3}{4}$ in. diameter, averaging $\frac{3}{4}$ ins. from centre to centre.

Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets $\frac{3}{4}$ in. diameter averaging $\frac{3}{4}$ ins. from centre to centre.

Butts of 2 Strakes at Bilge for $\frac{1}{2}$ length, treble riveted with Butt Straps $\frac{1}{16}$ thicker than the plates they connect.

Edges from bilge to Main Sheerstrake, worked clencher, double ~~or single~~ riveted; with rivets $\frac{3}{4}$ in. diameter, averaging $\frac{3}{4}$ ins. from cr. to cr.

Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets $\frac{3}{4}$ & $\frac{7}{8}$ in. diameter, averaging $\frac{3}{4}$ $\frac{3}{8}$ ins. from cr. to cr.

Edges of Main Sheerstrake, double ~~or single~~ riveted. Upper Sheerstrake, double or single riveted. ✓

Butts of Main Sheerstrake, treble riveted for $\frac{1}{2}$ length amidships. Butts of Upper or Spar Sheerstrake, treble riveted ✓ length amidships.

Butts of Main Stringer Plate, treble riveted for $\frac{1}{2}$ length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for ✓ length.

Breadth of laps of plating in double riveting $\frac{6}{16}$ inches Breadth of laps of plating in single riveting ✓

Stringer Plates, treble, double ~~or single~~ Riveted? _____

Butt Straps of Keelsons, Stringer and Tie Plates, Deck, outside stringer
Waterway, how secured to Beams, Gutter (Explain by Sketch, if necessary.)
Beams of the various Decks, how secured to the sides? Knives turned on Beams No. of Breasthooks, 4 Crutches, 3
What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? Rolls, Angles & Primus Iron
Manufacturer's name or trade mark, Floors, Houston M. Iron Co. Plater, T. Vaughan

The above is a correct description.

Builder's Signature, Ostbourne Graham Surveyor's Signature, William Storer

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

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

Do the edges of the carvel work and of the butts lay close together throughout their length without requiring any making good of deficiencies? Yes

Are the fillings between the ribs 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? None only.

Masts, Bowsprit, Yards, &c., are all in good condition, and sufficient in size and length. If of Iron or Steel give scantlings of Plating, Angle Irons, &c., and further explain by a Sketch showing how the lower Masts and Bowsprit are constructed, showing the number of Plates and Angle Irons, mode of riveting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit As per sketch attached

15744 Iron

NUMBER for EQUIPMENT		13186	Fathoms.	Inches.	Test per Certificate.	Length & Size req'd pr Rule.	Test req'd per Rule.	ANCHORS.	No.	Weight. Ex. Stock.	Test per Certificate.	W'ght req'd per Rule.	Test req'd per Rule.
No.	SAILS.	CABLES, &c.	270	1 7/8	47 10/20	270.13 1/2	43 9/10	Bowers	1	26.0.14	25.14.1.14	23 1/2	23 10/20
		Chain	Tested at R. W. C. P. Test by J. Hartman										
	Fore Sails,		3 Trials of each 15 feet from										
	Fore Top Sails,		to breaking strain										
	Fore Topmast Stay Sails		90	7/8		90.10							
	Main Sails,	Hawser ...	90	10 1/2		90.8		Stream	...	1	9.3.21	10.00	
	Main Top Sails,	Towlines ...	90	7	✓	90.5				1	5.1.0	5.00	
	Warp ...		90	5				Kedges	...	1	3.0.7	2.2.0	
and		quality <u>good</u>	90	4									

Standing and Running Rigging Wm. & Manilla sufficient in size and good in quality. She has 3 Long Boat and 1 filled with Pump

The Windlass is good. Capstan good and Rudder good Pumps good and sufficient

Engine Room Skylights. How constructed? Yes How secured in ordinary weather? Yes

What arrangements for deadlights in bad weather? Yes

Coal Bunker Openings. How constructed? Yes How are lids secured? Yes Height above deck? Yes

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? Boats and pumps each side

Cargo Hatchways. How formed? Plated and angle iron

State size Main Hatch 14' 8" x 10' 0" Fore hatch 5' 6" x 5' 6" Quarter hatch 7' x 7' 6"

If of extraordinary size, state how framed and secured? Plating of Bulk and angle iron

What arrangement for shifting beams? Secured to beamings with nuts and screws

Hatches, If strong and efficient? Yes solid

Order for Special Survey No. <u>2584</u>	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	<u>Built under J. and J. and J. 1875 Aug 18 20 26 31 Sep</u>
Date <u>2nd Sept/75</u>		2nd. On the plating during the process of riveting	<u>9 15 22 29 Oct 6 13 22 25 Nov 14 16 23 25 Dec 19 26 31 Jan 1 11 18 25</u>
Order for Ordinary Survey No. <u>1</u>		3rd. When the beams were in and fastened, and before the decks were laid...	<u>24 Feb 3</u>
Date <u>1</u>		4th. When the ship was complete, and before the plating was finally coated or cemented...	
No. <u>20</u> in builder's yard.		5th. After the ship was launched and equipped	

General Remarks (State quality of workmanship, &c.) This vessel has been built in general conformity with the Rules and in accordance with the approved Workship, section 1, entered by Secretary's letter dated July 20 1875. The workmanship is of good quality throughout and well finished. She has a raised quarter deck 45 feet long and a House on deck for the Crew. It will be observed the Steam Anchor is 7 lbs light in weight but the Hedges are in excess of book requirements

State if one, two, or three, decked vessel, or if span, or running deck, and the length of poop, fore-castle, or raised quarter deck, and the length of double, or part double bottom

How are the surfaces preserved from oxidation? Inside Cement and Paint Outside Paint and Red Lead

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

The amount of the Entry Fee ... £ 5 : - - is received by me, HW
Special ... £ 38 : 14 : - 3rd Feb 1876
Certificate ... - : - : -

(Travelling Expenses, if any, £ -)

Committee's Minute 8th February 1876

Character assigned 100 A. 1