

COMPOSITE SHIP.

Rec 6/1/59

18 69

9597 Survey held at Sunderland
on the Ship "Beltana"

Date

May 1st

Master

Angel

Tonnage under tonnage deck 699.35No Ditto of quarter deck 33.04153 Ditto of ^{Top Gallant} fore-castle, & other erections on upper deck 40.12

Ditto of open deck

Ditto of crew space 38.61Gross tonnage, less crew space 733.90

Total Register tonnage, as out on beam

Built at Sunderland

When built

1869

Launched

April 1869

By whom built James King Esq.

Owners

W. A. Stevens

Port belonging to

London

Destined Voyage

London thence to Adelaide

If Surveyed while Building, Afloat, or in Dry Dock

Whilst Building

Length aloft	Feet.	Inches.	Extreme Breadth	Feet.	Inches.	Depth from top of Upper Deck Beam to top of Floor	Feet.	Inches.	Power of Engines	Horse.	N ^o . of Decks
172	3	33	6	19	6						One

(Dimensions of Ship as registered, length 172.5 breadth 33.6 depth 19.2)

Inches in Ship.				Inches required per Rule.				Inches in Ship.				Inches required per Rule.			
for 600 tons Scale.				for 600 tons Scale.				for 16th. In. req'd per Rule.				for 16th. In. req'd per Rule.			
Keel, siding and moulding	14 1/2 x 16	14 1/2 x 16	14 1/2 x 16	14 1/2 x 16	14 1/2 x 16	14 1/2 x 16	14 1/2 x 16	Garboard Strakes, thickness	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
" plate, breadth and thickness	29 x 12 1/6	29 x 12 1/6	29 x 12 1/6	29 x 12 1/6	29 x 12 1/6	29 x 12 1/6	29 x 12 1/6	Garboard to Topsides ditto	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
Stem, siding and moulding	14 1/2 x 16 1/2	14 1/2 x 16 1/2	14 1/2 x 16 1/2	14 1/2 x 16 1/2	14 1/2 x 16 1/2	14 1/2 x 16 1/2	14 1/2 x 16 1/2	Topsides ditto	4	4	4	4	4	4	4
Fore deadwood plate, breadth and thickness	14 x 15 to 17 in	14 x 15 to 17 in	14 x 15 to 17 in	14 x 15 to 17 in	14 x 15 to 17 in	14 x 15 to 17 in	14 x 15 to 17 in	Sheerstrakes ditto	4	4	4	4	4	4	4
Stern-post, siding and moulding	13 1/6	13 1/6	13 1/6	13 1/6	13 1/6	13 1/6	13 1/6	Planksheers ditto	4	4	4	4	4	4	4
After deadwood plate, breadth and thickness	13 1/6	13 1/6	13 1/6	13 1/6	13 1/6	13 1/6	13 1/6	Water - Upper Deck	8 1/2 x 12	8 1/2 x 12	8 1/2 x 12	8 1/2 x 12	8 1/2 x 12	8 1/2 x 12	8 1/2 x 12
Distance of Frames from moulding edge to moulding edge, all fore and aft	18 in	18 in	18 in	18 in	18 in	18 in	18 in	Ways - Lower Deck							
Frames, Size of Angle Iron, single or double	3 1/2	4	8	3 1/2	4	8	3 1/2	Iron Sheerstrake, breadth and thickness	29	9	29	9	29	9	29
" Reversed Iron, if to every frame	To hold 1/2" stringer angle iron	To hold 1/2" stringer angle iron	To hold 1/2" stringer angle iron	To hold 1/2" stringer angle iron	To hold 1/2" stringer angle iron	To hold 1/2" stringer angle iron	To hold 1/2" stringer angle iron	" Bilge Plate ditto	20	9	20	9	20	9	20
" every alternate frame	To Gunwale	To Gunwale	To Gunwale	To Gunwale	To Gunwale	To Gunwale	To Gunwale	Diagonal Plates on Frames	7 1/2	9	7 1/2	9	7 1/2	9	7 1/2
Floors, depth and thickness of Floor Plate at Mid line	22	8	22	8	22	8	22	Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness	24 1/2	10	24 1/2	10	24 1/2	10	24 1/2
" Ditto ditto at Bilge Keelson	10	8	10	8	10	8	10	Angle Iron on ditto	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7
" Size of Reversed Angle Iron, and N ^o . 1 & 2 at top of Floor Plate	3	2 3/4	6	3	2 3/4	6	3	Fore and aft Tie Plates on Upper Deck Beams, outside Hatchways	12	9	12	9	12	9	12
" If of Wood, siding & mould'g, at Mid. line								Diagonal Tie Plates on ditto	12	9	12	9	12	9	12
Deck (N ^o . 34) double Angle Iron, Plate, Tee, or Bulb Iron	8	9	8	9	8	9	8	Flat of Upper Deck, thickness	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
" double or single Angle Iron, on Upper edge	3	3	6	3	3	6	3	Ceiling betwixt Decks, thickness	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
" average space between	Every third frame	Every third frame	Every third frame	Every third frame	Every third frame	Every third frame	Every third frame	" in Hold, thickness	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
" or Lower Deck (N ^o . 33) double Angle, Tee, Plate, or Bulb Iron	9	10	9	10	9	10	9	Clamps or Spirketting ditto							
" double or single Angle Iron, on Upper edge	3 1/2	3 1/4	7	3 1/2	3 1/4	7	3 1/2	Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness	18	15	18	15	18	15	18
" average space between	Every third frame	Every third frame	Every third frame	Every third frame	Every third frame	Every third frame	Every third frame	Fore and aft Tie Plates outside Hatchways, on Hold or Lower Deck Beams	13 1/2	9	13 1/2	9	13 1/2	9	13 1/2
Keelson, single or double plate, box, or intercostal	28 ft. long	15	12	14 1/2	12	14 1/2	12	Stringers in Hold	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7	3 1/2 x 4 1/2 x 7
" Size of Plates	Double Top & Bottom	3 1/2	4 1/2	7	3 1/2	4 1/2	7	State if all Butts of the foregoing are shifted properly from each other	Yes						
" Size of Angle Irons	Double Top & Bottom	3 1/2	4 1/2	7	3 1/2	4 1/2	7	Flat of Lower Deck, thickness							
" If of Wood, siding and moulding	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Diameter of Hold Pillars	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4	3 1/4
" Side, single or double, plate, box, or intercostal	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Main piece of Rudder, diameter at head	16	16	16	16	16	16	16
" Bilge (N ^o . One) at each Bilge, single, or double, plate or box A, I, or Bulb Plate between Ditto	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	Submitted, approved by the Committee	(Can the Rudder be unshipped afloat)	Yes						

The Keel consists of American Rock Elm. The Stem E. I. Oak. Stern Post E. I. Oak. Apron E. I. Oak.
Inner Stern Post E. I. Oak. Deadwood E. I. Oak. Knight-heads, and Hawse Timbers E. I. Oak and Iron.

The Floors Iron - 16. Wood Frames 16. and Ceiling upon them

Beams Bulb plate with angles and Keelsons Iron plate with angles as per sketch and are App free from all defects.

Planking Outside. — From the Keel to the Height of one-fifth the depth of Hold as per Table I American Rock Elm.
Ditto ditto from Keel to the Height of two-fifths the depth of Hold ditto American Rock Elm.
Ditto ditto from two-fifths the depth of Hold to Gunwale East India Oak.

The Upper Deck Waterway E. I. Oak. Spirketting E. I. Oak. Planksheer E. I. Oak and Roughtree Timbers E. I. Oak.

The Main Piece of Rudder E. I. Oak. Windlass Emmerson & Walker's patent and Pall Bitt Iron.

The Decks Yellow pine. State of Good. How fastened to Beams Galvanized iron screw bolts with nuts.

The Shifts of the Planking are not less than Six Feet — Inches. N. B. If less than prescribed by the Rule, state whether general or partial, and if partial, in what part of the Ship.

The Planking is wrought Three between, and without step-butting.

Planking Inside. — The Limber-strakes and Bilge-strakes are

The Ceiling, Lower Hold, and between Decks Red pine. Shelf pieces and Clamps

Butt Straps of Keel Plates, Keelsons, Stringer and Tie Plates, of every description, are they of proper dimensions, and Rivetted in accordance with the Rules? Yes. State which Table None double throughout single rivetting exists.

Planksheer, how secured to the plating of the sides? Explain by sketch Bolts to Waterway & Sheerstrake.

Waterway " " planksheer and to the Beams? Bolts through stringer plates with galv. iron bolts.

Deck Beams, how secured to the side? Turned down ends & rivetted to main frames & stringer plates.

Hold or Lower Deck Beams ditto? Turned down ends & rivetted to main frames & stringer plates.

General Quality of Workmanship Good. No. of breasthooks 4 crutches 4.

What description of Iron is used for the Frames, Beams, Keelsons, Stringer and Tie Plates, Outside Plating, Rivets, &c.? Angle Irons by Losh.

Manufacturer's name or trade mark Wilson & Bell; Hawks. Crawshaw & Sons; Plating by Corbett & Co.

We certify that the above is a correct description of the several particulars therein given.

Builder's Signature James King. Surveyor's Signature James King.

Size of Bolts in Fastenings, distinguishing whether Copper, Yellow Metal, Galvanized Iron, and Rivets.

	Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule		Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule		Copper or Y.M. in Ship.	Iron in Ship.	Inches required per Rule
Deadwood forward and aft ..	1 1/16	1 1/8	1 1/8	Transoms and throats of Holes	3/4	3/4	3/4	Pintles of the Rudder	3 1/2	3 1/2	3 1/2
Scarphs of Keel, No. 5	1 1/16	1 1/8	1 1/8	Arms of Hooks	3/4	3/4	3/4	Hold Beam	Waterway	3 1/2	3 1/2
Keelson Bolts through Keel at each Floor	1 1/16	1 1/8	1 1/8	Thro' Frames and Planking	1 1/16	1 1/8	1 1/8	Bolts in	Knees	3 1/2	3 1/2
Bolts through Iron Keel Plate and Wood Keel	1 1/8	1 1/8	1 1/8	Butt End Bolts	1 1/16	1 1/8	1 1/8	Deck Beam	Waterway	3 1/2	3 1/2
Garboard Bolts Athwartship ..	1 1/16	1 1/8	1 1/8	Rivets	3/4	3/4	3/4	Bolts in	Knees	3 1/2	3 1/2
									Shelf or Clamp	3 1/2	3 1/2
									Nails or Bolts in Flat of Deck	9/16	9/16

Masts, Bowsprit, Yards, &c., are in good condition, and sufficient in size and length. If they are of Iron or Steel give the 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 rivetting, quality of Materials, and if stamped with Maker's name.

State also Length and Diameter of Lower Masts and Bowsprit

The four & main lower masts, bowsprit, &c. are of Iron, please see sketch attached. The testing certificates of chain cables have been produced, issued from the Cumberland & White and signed by Mr. John Battress.

No.	Fore Sails,	Chain	Fathoms.	Inches.	Test as per Certificate.	In. req'd per Rule.	Test req'd per Rule.	ANCHORS, &c.	No.	Weight.	Ex. Stock, &c.
	Fore Top Sails,	Swivel links from a to breaking strain, released a margin of 27% over Admiralty proof for 1 1/2" dia.	300	1 1/2	44	1 1/16	44	Bowers ..	1	3.2.7.2.	
	Fore Topmast Stay Sails,	Hempen Stream Cable ..	90	6	7				1	20.0.21	
	Main Sails,	Hawser	70	7 1/2	7			Stream	1	40.1.0	
	Main Top Sails,	Towlines	70	7	7			Kedges	2	15.1.0	
		Warp	70	5	7						
		All of <u>good</u> quality.	90	4 1/2							

Her Standing and Running Rigging Wire & Hemp sufficient in size and good in quality.

She has 2 Life Boats - Long Boat and 1 Cutter and 1 Gig

The present state of the Windlass is win Capstan winch and Rudder winch Pumps 2 Metal and 1

- Order for Special Survey No. 2146 DATES OF Surveys held while building
- Order for Ordinary Survey No. 2146 Date Oct 27/68
- 1st. Examination of the wood keel, stem, stern post, and deadwood before they are coated
 - 2nd. Of the frame before it is painted, strapped, or plated
 - 3rd. Of all the beams, stringers, plates, &c., when in place, rivetter up ready to receive the planking
 - 4th. When the vessel is planked outside, dubbed fair, and all the fastenings completed, but before she is either caulked, coated, or cemented, so that the inside and out of the planking, and the bolts and their nuts, may be carefully examined
 - 5th. When the vessel is caulked and completed
 - 6th. When the vessel is launched and equipped

State if she has a Spar Deck No Poop No Forecastle No or raised Quarter Deck No

General Remarks,

This vessel has a op grillant-forecastle, with bulk head beams 6 1/2 x 7/16, with double angle lions on the upper edge 2 1/2 x 2 1/2 x 7/16, & with sheer strake, stringers, & Lie-plated as per rule; The keel plate is bolted to the keel with yellow metal through bolts, and with a galvanized iron screw bolt alternating for about 1/2 the length amidships; The main keelson is fitted with a foundation & rider plated as per sketch, and the intercostal plates are rivetted to an extra plate on the outside of frames with stap angle lions fitted between the frames as per sketch, and the bulk plates to side & keelson are square butted, and the butts secured with a stap & bolts turned over the bulk staple fashion; she has also, a false keel of American Rock Iron Continued external fastenings from the lower part of 1/4th of the depth of hold below the upper side of above which the whole of the fastenings are of Iron properly galvanized, and over In what manner are the surfaces of Iron preserved from oxidation inside and outside Paint above

Present condition of Caulking of Bottom Good Deck, Good and Waterways Good

If Sheathed, Doubled, Felted, or Coppered Y metal 1845 When last done Present time

I am of opinion this Vessel should be Classed A

The Amount of the Fee.....£ 5 : : received by me,

Special£ 86 : 18 : :

Certificate£ : : : :

Committee's Minute 7th May 18 69

Character assigned A for 16 years

Subject to the approval of the Committee for the second Power Anchor which is rather lighter than required by the rules per Label 22

James Libur

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