

IRON SHIP.

105 Survey held at *Newcastle* Date, First Survey *5th March* Last Survey *9th September 1880*
Iron *Sr. Rigged* *Screw Steamer* "*Simoom*" Master *C. Straker*

Under on Deck	1937.50	ONE OR TWO DECKED, THREE DECKED VESSEL.	Built at <i>Newcastle</i>
Third, Spar, Lower Deck.		SPAR, OR AWNING DECKED VESSEL.	When built <i>1880</i> Launched <i>10th August 1880</i>
of Poop, &c.	56.16	HALF BREADTH (moulded)	By whom built <i>C. Mitchell & Co</i>
of Lower on 1	27.13	DEPTH from upper part of Keel to top of Upper Deck Beams	Owners <i>Bedouin Steam Navigation Co</i>
of 1 st & 2 nd Hatchways	37.67	GIRTH of Half Midship Frame (as per Rule)	Port belonging to <i>Liverpool</i>
of 3 rd & 4 th Hatchways	2070.28	1 st NUMBER	Destined Voyage <i>Odessa</i>
Less Ore	57.56	2 nd NUMBER	If Surveyed while Building, Afloat, or in Dry Dock.
Less Engine Room	2012.78	LENGTH	<i>While building</i>
Register Tonnage (as cut on Beam)	662.49	PROPORTIONS—Breadths to Length	
	1350.23	Depths to Length—Upper Deck to Keel	
		Main Deck ditto	

LENGTH on deck as per Rule	283.4	BREADTH—Moulded	35.9	DEPTH top of Floors to Upper Deck Beams	24.5	Power of Engines	235	N ^o . of Decks with flat laid	Two
				Do. do. Main Deck Beams	16.11			N ^o . of Tiers of Beams	Three

Dimensions of Ship per Register, length, *285.8* breadth, *36.1* depth, *24.35*

KEEL, depth and thickness	Inches in Ship.	Inches per Rule.	FLAT KEEL PLATES, breadth and thickness	Inches in Ship.	Inches per Rule.
STEEL moulding and thickness	10 x 2 3/4	10 x 2 3/4	PLATES in Garboard Strakes, breadth and thickness from Garboard to upper part of Bilges	36	16
POST for Rudder do. do.	10 x 5 1/2	10 x 5 1/2	" of doubling at Bilge, or increased thickness, and length applied	47	12
" for Propeller	10 x 5 1/2	10 x 5 1/2	" fin up part of Bilge to Ir. edge of Sh'rstrake.	11	11
Distance of Frames from moulding edge to moulding edge, all fore and aft	24	24	" Main Sheerstrake, breadth and thickness of doubling at Sh'rstrake, & length applied from Main to Upper or Spar Dk. Sh'rstrake.	40	14
FRAMES, Angle Iron, for 3/4 length amidships	5 x 3	5 x 3	" Up. or Spar Dk Sh'rstrake, breadth & thickness	40	13
" at each end	5 x 3	5 x 3	Butt Straps to outside plating, breadth & thickness	12 feet	10 feet
VERSED FRAMES, Angle Iron	3 1/2 x 3	3 1/2 x 3	Lengths of Plating	4 feet	4 feet
FLOORS, depth and thickness of Floor Plate at mid line for half length amidships	24 x 9	24 x 9	Shifts of Plating, and Stringers	54	10
thickness at the ends of vessel	7	7	Gunwale Plate on ends of Lower, Spar, or Upper Deck Beams, breadth and thickness	4 x 4 x 9	4 x 4 x 9
depth at 3/4 the half-bdth. as per Rule	7	7	Angle Iron on ditto	14	9
height extended at the Bilges	7	7	Tie Plates fore and aft, outside Hatchways	14	9
Upper, Spar, or Awning Deck	7	7	Diagonal Tie Plates on Beams No. of Pairs		
Angle Iron, Plate or Tee Bulb Iron	3 x 3	3 x 3	Plank-sheer material and scantling		
Single or double Angle Iron on Upper edge	48	48	Waterways do. do.		
Average space	6	6	Flat of Upper Deck do.		
AMS, Main, or Middle Deck	6 x 3	6 x 3	How fastened to Beams		
Angle Iron, Plate or Tee Bulb Iron	24	24	Stringer Plate on ends of Main or Middle Deck	45	9
Single or double Angle Iron, on Upper Edge	24	24	Beams, breadth and thickness		
Average space	6	6	Is the Stringer Plate attached to the outside plating?	Yes	
BEAMS, Lower Deck, Hold, or Orlop	8 1/2 x 8	8 1/2 x 8	Angle Irons on ditto, No. 2	4 x 4 x 9	4 x 4 x 9
Angle Iron, Plate or Tee Bulb Iron	3 x 3	3 x 3	Tie Plates, outside Hatchways		
Single or double Angle Iron on Upper Edge	3 x 3	3 x 3	Diagonal Tie Plates on Beams, No. of pairs		
Average space	6	6	Waterways materials and scantlings		
KEELSONS Centre line, single or double plate,	15 x 11	14 1/2 x 11	Flat of Middle Deck do. do.		
Box, or Intercoastal, Plates	28 x 9	28 x 9	How fastened to Beams		
Side Plate	13 x 11	12 1/2 x 11	Stringer Plates on ends of Lower Deck, Hold or Orlop Beams	37	9
Bulb Plate to Intercoastal Keelson	6 x 4	6 x 4	Is the Stringer Plate attached to the outside plating?	Yes	
Angle Irons	6 x 4	6 x 4	Angle Irons on ditto, No. 2	4 x 4 x 9	4 x 4 x 9
Double Angle Iron Side Keelson	2 1/2 x 8	2 1/2 x 8	Stringer or Tie Plates, outside Hatchways		
Side Intercoastal Plate	6 x 4	6 x 4	Flat of Lower Deck		
do. Angle Irons	6 x 4	6 x 4	Ceiling betwixt Decks, thickness and material		
Attached to outside plating with angle iron	3 1/2 x 3 1/2	3 1/2 x 3 1/2	" in hold		
BILGE Angle Irons	6 x 4	6 x 4	Main piece of Rudder, diameter at head	7 1/2	7 1/2
do. Bulb Iron	8 1/2 x 8	8 1/2 x 8	do. at heel	3 3/4	3 3/4
do. Intercoastal plates riveted to plating for			Can the Rudder be unshipped afloat?	Yes	
BILGE STRINGER Angle Irons	6 x 4	6 x 4	Bulkheads No. 5 Thickness of	7	7
Intercoastal plates riveted to plating for half length	11 x 9	11 x 9	" Height up		
SIDE STRINGER Angle Irons			" How secured to sides of ship		
Transoms, material. Knight-heads. Hawse Timbers.			" Size of Vertical Angle Irons 3 1/2 x 3 1/2 and distance apart	30	ins.
Class			" Are the outside Plates doubled two spaces of Frames in length?	Yes	

FRAMES extend in one length from *Keel* to *Gunwale* Riveted through plates with *7/8* in. Rivets, about *6 1/2* apart.
 The REVERSED ANGLE IRONS on floors and frames extend from *across* middle line to *M. H. S. A. S.* and to *Gunwale* 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 1/2* in. diameter, averaging *4* ins. from centre to centre.
 " Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets *7/8* in. diameter, averaging *4* ins. from centre to centre.
 " Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets *7/8* in. diameter averaging *3 3/4* ins. from centre to centre.
 " Butts of *Three* Strakes at Bilge for *half* length, treble riveted with Butt Straps *to* thicker than the plates they connect.
 " Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets *7/8* in. diameter, averaging *4* ins. from cr. to cr.
 " Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets *7/8* in. diameter, averaging *3 3/4* 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 length amidships. Butts of Upper or Spar Sheerstrake, treble riveted *half* length amidships.
 " Butts of Main Stringer Plate, treble riveted for *half* length amidships. Butts of Upper or Spar Stringer Plate, treble riveted for *half* length.
 " Breadth of laps of plating in double riveting *5 1/2 x 6* Breadth of laps of plating in single riveting
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? *Treble and double riveted*.
 Waterway, how secured to Beams
 Beams of the various Decks, how secured to the sides? *Welded knees* No. of Breasthooks, *7* Crutches, *4*
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Angles & Bulbs—Dorman Long & Co*
 Manufacturer's name or trade mark, *Stockton Malleable Iron Co. Plates:—Bolton Vaughan & Co, Stockton Malleable Iron Co, Consett Iron Co, and Fox Head & Co.*
 The above is a correct description.
 Builder's Signature, *For C. Mitchell & Co* Surveyor's Signature, *J. H. Cooke*
 Surveyor to Lloyd's Register of British and Foreign Shipping.
 IRON 495-0258

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? *A few*

Masts, Bowsprit, Yards, &c., are *Iron* 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 *Fore mast length extreme 77 ft 6 in. main mast length extreme 74 ft. Diameter of masts at the partners 22 in. Two plates in the round 6 1/16 to 5 1/16 in thickness. The edges double riveted, and the butts double and treble riveted. makers of the Iron Bolckow Vaughan & Co.*

NUMBER for EQUIPMENT 25509		Fathoms.	Inches.	Test per Certificate.	Inches per Rule.	Machine where Tested & Suprtd.	ANCHORS.	N ^o .	Weight. Ex. Stock.	Test per Certificate.	Wght req'd per Rule.	Machine where Tested & Suprtd.
SAILS.							Bower Anchors					
N ^o . <i>One sheet</i>	Fore Sails,	Chain	270	1 1/16	59 1/2	270 - 1 1/16	1 32.3.7 30.15.2.14 32.0.0					
	Fore Top Sails,	Iron Str'm Chain	75	1 1/2	22 1/2	75 - 1 1/2	1 32.2.0 30.10.0.0 32.0.0					
	Fore Topmast Stay Sails,	Ditto do.	120	4	120	120	1 27.2.7 26.16.3.14 27.1.0					
	Main Sails,	Hawser ...	90	9	90	90	1 10.2.7 12.10.3.21 10.2.0					
	Main Top Sails,	Towlines	90	7	90	90	1 5.1.7 7.14.0.7 5.1.0					
		Warp ...	180	6	180	180	1 2.2.0 5.0.0.0 2.2.0					
		quality good.	180	4 1/2								

Standing and Running Rigging *Manilla* sufficient in size and good in quality. She has *2 Life* Long Boats and *2 others*

The Windlass is *Good* Capstan *Good* and Rudder *Good* Pumps *Good*

Engine Room Skylights. How constructed? *Iron trunk to shade deck & iron* How secured in ordinary weather? *Bolted to angles.*

What arrangements for deadlights in bad weather? *Solid shutters and bulls eyes.*

Coal Bunker Openings. How constructed? *Cast Iron Comings* How are lids secured? *By hatch bars* Height above deck? *12 1/2 in.*

Scuppers, &c. What arrangements for clearing upper deck of water, in case of shipping a sea? *Eleven ports each side besides mooring pipes.*

Cargo Hatchways. How formed? *Iron Comings and headledges riveted together.*

State size Main Hatch *20 ft. x 12 ft.* Fore hatch *8 ft. x 8 ft.* Quarter hatch *16 ft. x 12 ft. & 16 ft. x 12 ft.*

If of extraordinary size, state how framed and secured? *Ordinary size*

What arrangement for shifting beams? *Deep seat plate & three wood fore rafters in the main hatch, & bulk plate shifting beam & three wood fore rafters in the two after hatchways, and a wood fore rafter in the fore hatchway.*

Hatches, If strong and efficient? *Yes (Solid hatches).*

Order for Special Survey No. <i>1420</i>	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	1880 March 5. 8. 12. 16. 23. 25. April 6. 8. 20. 22. 26. 29
Date <i>10th Feb/80</i>		2nd. On the plating during the process of riveting	May 4. 7. 12. 21. 25. 28. 31 June 1. 3. 4. 9
Order for Ordinary Survey No. <i>—</i>		3rd. When the beams were in and fastened, and before the decks were laid...	15. 18. 28 July 2. 6. 7. 14. 16. 20. 22. 27. 29
Date <i>—</i>		4th. When the ship was complete, and before the plating was finally coated or cemented...	Aug 4. 7. 9. 14. 16. 19. 25. 31
No. <i>398</i> in builder's yard.		5th. After the ship was launched and equipped	Sept 3. 8. 9

General Remarks (State quality of workmanship, &c.) *This is a three decked vessel built in accordance with the tracings attached, and otherwise in accordance with the Rules. She is a sister vessel to the "Sheikh" Report No 14828 except in the construction of the bottom. The upper deck beams are plated over between the stringer plates and hatchways with plates 6 1/16 to 5 1/16 in thickness. The plating extends from the first beam before the main hatchway to the first beam abaft the after hatchway; and from side to side from the after part of the main hatchway to the after part of the engine and boiler space where practicable, and the wood deck is fitted upon the iron deck. She has a Poop 30 ft long, Forecastle 35 ft long, & shade deck amidships 64 ft long. Is fitted with water ballast tanks, in the after hold 88 ft, under the engines and boilers 38 ft, and in the main hold 18 ft. Tanks tested with a head of water to the height of load line and found satisfactory, and the general quality of the workmanship is good.*

The Hawsers and warps supplied although not strictly in accordance with the Rules, have been fixed by the Owners to suit their requirements. I respectfully beg to submit the case to the favourable consideration of the Committee.

State if one, two, or three decked vessel, or if spar, or awning decked; and the lengths 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 & Paint* Outside *Paint*

I am of opinion this Vessel should be Classed *100A1 Two decks and three tiers of beams.*

The amount of the Entry Fee ... £ 5 : - : - is received by me, *J. H. Cooke*

Special ... £ 45 : 6 : 6 *14 Sept 1880*

Certificate *Gratis* : - : -

(Travelling Expenses, if any, £ —)

Committee's Minute *18th Sept* 18 *80*

Character assigned *100A .1. Two decks and three tiers of beams*
A & C. P. Iron deck