

Spar, Awning or Part Awning Dk.

IRON OR STEEL STEAMER.

THUR 31 DE 1891
(Received at London Office)

State if Report is also sent on the Machinery of the Vessel *Yes*
Date of completion of Report *30.12.91*

Port of *West Hartlepool*

No. *8682* Survey held at *West Hartlepool* Date, First Survey *June 30th 91* Last Survey *Dec 27th 1891*
On the *Spar Decked Steel Screw Steamer "Spheroid"* Rig *Schooner (Two masts)*

TONNAGE under Tonnage Deck... *1786.83*
Do. of Poop *20.26*
Do. of Rais d Qr. Dk. or Break *81.90*
Do. of Bridge House *23.63*
Do. of Houses on Deck *28.44*
Do. of excess of Hatchways of Forecastle above Crown of Engine Room *1941.06*
Do. of Space between Crown of Engine Room *69.63*
Do. of Space between Crown of Engine Room *28.44*
Do. of Space between Crown of Engine Room *1842.99*
Do. of Space between Crown of Engine Room *621.14*
Do. of Space between Crown of Engine Room *11.84*

SPAR, AWNING OR PART AWNING-DECKED VESSEL,
or a Vessel having a continuous Shade Deck.

CLASS 100 A1, Spar Decked

Master *Norris*
Year of Appointment *1891*
Built at *West Hartlepool*
When built *1891* Launched *Oct 1st 1891*
By whom built *W. Gray & Co (Lind)*
Owners *J. Sutton Sons & Co*
Managers
Residence *9 Broadchurch St London E.C.*
Port belonging to *London*

Register Tonnage as out on Beam... *1238.45*

Destined Voyage *West India* & Surveyed while Building, Afloat, or in Dry Dock

LEY	TH on Deck	Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH	top of Floors to Spar or Awn. Dk. Beams	Feet.	Inches.	Power of Engines	Horse.	No. of Decks with flat laid	No. of Tiers of Beams
a	Rule	273	7	Moulded	35	10	Do.	Do.	22	2	220	220	9	9

Dimensions of Ship per Register, Length *276.3* breadth *36.05* depth *22.63* Spar or Awn. Dk. Moulded depth, ft. *16* ins. *5* To Main Dk. Beam, Main Dk. *9* ins.

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule.
KEEL, Bar or Side Plates, depth and thickness	<i>Flat plate Rule</i>	<i>8 1/2 x 2 1/2</i>
STEM, moulding and thickness	<i>8 1/2 x 5</i>	<i>8 1/2 x 5</i>
STERN-POST for Rudder do. do.	<i>8 1/2 x 5</i>	<i>8 1/2 x 5</i>
for Propeller	<i>8 1/2 x 5</i>	<i>8 1/2 x 5</i>
MAIN PIECE of Rudder, diameter at head	<i>4 1/2</i>	<i>4 1/2</i>
do. at heel	<i>3 1/2</i>	<i>3 1/2</i>
RUDDER, how constructed	<i>Forged iron frame & plate</i>	<i>Yes</i>
Can Rudder be unshipped afloat?	<i>Yes</i>	<i>Yes</i>

FRAMING.

	Inches in Ship.	Inches per Rule.
ME Angles, or 7 Bars for 1/2 length amidships for 1/2 at each end	<i>4</i>	<i>3</i>
Do. in way of Double Bottoms	<i>4</i>	<i>3</i>
Distance of Frames from moulding edge to moulding edge, all fore and aft	<i>3</i>	<i>3</i>
VERSED FRAME Angles	<i>3</i>	<i>3</i>
DOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	<i>3</i>	<i>3</i>
in way of Engines and Boilers	<i>3</i>	<i>3</i>
Thickness at the ends of vessel	<i>3</i>	<i>3</i>
depth at 1/2 the half-bdth. as per Rule	<i>3</i>	<i>3</i>
height extended at the Bilges	<i>3</i>	<i>3</i>
IS & BRACKETS, in Cell Dble Bottoms	<i>36</i>	<i>7</i>
Distance apart	<i>23</i>	<i>23</i>
CENTRE GIRDER, in Double bottom, depth and thickness	<i>36</i>	<i>9</i>
Angles, Top <i>4 x 4 x 9</i> Bottom	<i>5 1/2</i>	<i>4</i>
DE CIRDERS, number and thickness	<i>3</i>	<i>3</i>
Angles	<i>3</i>	<i>3</i>
MARGIN PLATE, depth (exclusive of flange) and thickness	<i>22</i>	<i>22</i>
Angle	<i>3 1/2</i>	<i>3 1/2</i>
ER BOT PLATING, breadth and thickness of Middle Line Strake	<i>36</i>	<i>8</i>
Thickness in Engine and Boiler space	<i>Lean</i>	<i>9/16</i>
Remainder in Holds	<i>Steel</i>	<i>7</i>
SPAR or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<i>5 1/2</i>	<i>3</i>
Angles on upper edge	<i>23</i>	<i>23</i>
Average space	<i>6</i>	<i>3</i>
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<i>6</i>	<i>3</i>
Angles on upper edge	<i>23</i>	<i>23</i>
Average space	<i>6</i>	<i>3</i>
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	<i>6</i>	<i>3</i>
Angles on upper edge	<i>23</i>	<i>23</i>
Average space	<i>6</i>	<i>3</i>
BEAMS, Hold, or Orlop, Plate or Tee Bulb	<i>6</i>	<i>3</i>
Angles on upper edge	<i>23</i>	<i>23</i>
Average space	<i>6</i>	<i>3</i>
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	<i>6</i>	<i>3</i>
Angles on upper edge	<i>23</i>	<i>23</i>
Average space	<i>6</i>	<i>3</i>
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, or Tee Bulb	<i>6 1/2</i>	<i>3</i>
Angles on upper edge	<i>46</i>	<i>46</i>
Average space	<i>3</i>	<i>3</i>
BEAMS, Fore Deck, Angle, Bulb Angle, Plate or Tee Bulb	<i>6 1/2</i>	<i>3</i>
Angles on upper edge	<i>46</i>	<i>46</i>
Average space	<i>3</i>	<i>3</i>
PILLARS, In 'tween Decks, Size and Spacing	<i>2 1/2</i>	<i>46</i>
Hold	<i>3 1/2</i>	<i>46</i>
WEB FRAMES, In Fore Body, No. and spacing br'dth and thickness	<i>Eight 5 1/2</i>	<i>Span Eight 5 1/2</i>
No. of Side Stringers	<i>Two</i>	<i>Two</i>
WEB FRAMES, In After Body, No. and spacing br'dth and thickness	<i>Seven 6 1/2</i>	<i>Span Seven 6 1/2</i>
No. of Side Stringers	<i>Three</i>	<i>Three</i>
Size of Angles or Tee Bars to Web Frames	<i>3</i>	<i>3</i>
BRACKET PLATES, to Stringers between Web Frames, depth and thickness	<i>3</i>	<i>3</i>

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches per Rule.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	<i>✓</i>	<i>✓</i>
Rider Plate	<i>✓</i>	<i>✓</i>
Bulb Plate to Intercoastal Keelson	<i>✓</i>	<i>✓</i>
Horizontal Plates on Floors	<i>✓</i>	<i>✓</i>
Angles	<i>✓</i>	<i>✓</i>
SIDE KEELSON, Angles	<i>✓</i>	<i>✓</i>
Bulb or Plate above floors, for length	<i>✓</i>	<i>✓</i>
Intercoastal Plate, for length	<i>✓</i>	<i>✓</i>
Attached to outside Plating with Angle	<i>✓</i>	<i>✓</i>
BILGE KEELSON, Angles	<i>✓</i>	<i>✓</i>
Bulb or Plate above floors, for length	<i>✓</i>	<i>✓</i>
Intercoastal Plate, for length	<i>✓</i>	<i>✓</i>
Attached to outside Plating with Angle	<i>✓</i>	<i>✓</i>
BILGE STRINGER Angles	<i>✓</i>	<i>✓</i>
Bulb Plate, for length	<i>✓</i>	<i>✓</i>
Intercoastal Plate, for length	<i>✓</i>	<i>✓</i>
Attached to outside Plating with Angle	<i>✓</i>	<i>✓</i>
SIDE STRINGER Angles	<i>✓</i>	<i>✓</i>
Bulb or Intercoastal Plate, for len.	<i>✓</i>	<i>✓</i>
Spar, or Awning Deck Stringer Plates, on ends of Beams, breadth and thickness	<i>39</i>	<i>9</i>
Angle on ditto	<i>4 x 4</i>	<i>9</i>
Tie Plates, fore and aft, outside Hatchways	<i>Deck plating increased in way of openings</i>	<i>increased in way of openings</i>
Diagonal Tie Plates on Bms., No. of prs.	<i>Iron 6/16</i>	<i>6/16</i>
Flat of Deck * Iron or Steel, for whole len.	<i>No wood deck</i>	<i>No wood deck</i>
Wood Material and thickness	<i>No wood deck</i>	<i>No wood deck</i>
How fastened to Beams	<i>No wood deck</i>	<i>No wood deck</i>
Main Deck Stringer Plate, breadth & thickness	<i>39</i>	<i>10</i>
Angles on ditto, No.	<i>4 x 4</i>	<i>9</i>
Tie Plates, outside Hatchways	<i>Deck plating increased in way of openings</i>	<i>increased in way of openings</i>
Diagonal Tie Plates on Bms., No. of prs.	<i>Iron 6/16</i>	<i>6/16</i>
Flat of Deck * Iron or Steel, for whole len.	<i>No wood deck</i>	<i>No wood deck</i>
Wood Material and thickness	<i>No wood deck</i>	<i>No wood deck</i>
How fastened to Beams	<i>No wood deck</i>	<i>No wood deck</i>
Lower Deck Stringer Plates, br'dth & thckn's	<i>39</i>	<i>10</i>
Angles on ditto, No.	<i>4 x 4</i>	<i>9</i>
Tie Plates, outside Hatchways	<i>Deck plating increased in way of openings</i>	<i>increased in way of openings</i>
Flat of Deck * Material and thickness	<i>No wood deck</i>	<i>No wood deck</i>
How fastened to Beams	<i>No wood deck</i>	<i>No wood deck</i>
Hold, or Orlop Stringer Plate, br'dth & thckn's	<i>39</i>	<i>10</i>
Angles on ditto, No.	<i>4 x 4</i>	<i>9</i>
Tie Plates, outside Hatchways	<i>Deck plating increased in way of openings</i>	<i>increased in way of openings</i>
Flat of Deck. Material and thickness	<i>No wood deck</i>	<i>No wood deck</i>
How fastened to Beams	<i>No wood deck</i>	<i>No wood deck</i>
Poop Deck Stringer Plate, breadth & thickness	<i>39</i>	<i>10</i>
Angles on ditto	<i>4 x 4</i>	<i>9</i>
Tie Plates	<i>Deck plating increased in way of openings</i>	<i>increased in way of openings</i>
Flat of Deck. Material and thickness	<i>No wood deck</i>	<i>No wood deck</i>
Bridge Deck Stringer Plate, br'dth & thickness	<i>30</i>	<i>7</i>
Angle on ditto	<i>Flanged</i>	<i>Flanged</i>
Tie Plates	<i>Flanged</i>	<i>Flanged</i>
Flat of Deck. Material and thickness	<i>Pine 3</i>	<i>3</i>
How fastened to Beams	<i>Pine 3</i>	<i>3</i>
Forecastle Deck Stringer Plate, br'dth & thckn's	<i>30</i>	<i>7</i>
Angle on ditto	<i>3 x 3</i>	<i>7</i>
Tie Plates	<i>Great part of deck plated</i>	<i>Great part of deck plated</i>
Flat of Deck. Material and thickness	<i>Pine 3</i>	<i>3</i>

PLATING.

	Inches in Ship.	Inches per Rule.
FLAT PLATE KEEL, breadth and thickness	<i>36</i>	<i>16</i>
Dblng or inersd thckn's & len. appl.	<i>12</i>	<i>12</i>
PLATES in Garboard Strakes, breadth & thckn's from Garboard to lower part of Bilges	<i>10</i>	<i>10</i>
State Thickness of Plating in way of Double Bottom	<i>Two</i>	<i>Two</i>
Bilges, No. of Strakes and thickness	<i>Two</i>	<i>Two</i>
Of doubling at Bilge, or increased thickness, and length applied	<i>Two Strakes increased to</i>	<i>increased to</i>
from up. part of Bilge to lr. edge of Sh'rstrake	<i>10</i>	<i>10</i>
Main Sheerstrake, breadth and thickness	<i>42</i>	<i>14</i>
Of doubling at Sh'rstk. & lng. applied	<i>10</i>	<i>10</i>
from Main to Spar Dk. or Awn. Dk. Sh'rstk.	<i>42</i>	<i>13</i>
Spar or Awn. Dk. Sh'rstk., br'dth & thckn's	<i>42</i>	<i>13</i>
Poop sides	<i>6</i>	<i>6</i>
Bridge sides	<i>6</i>	<i>6</i>
Forecastle sides	<i>6</i>	<i>6</i>
Lengths of Plating	<i>London to Twenty feet</i>	<i>London to Twenty feet</i>

HEL 366-0150 (191)

Form No. 1 C.

APC 366-0150 (2/2)