

# 6893 IRON SHIPS.

29939

No. 84 Survey held at London Date February 26<sup>th</sup> 1869  
 on the "Cassini" Master G. J. Burn  
 Tonnage under tonnage deck 637.69 Built at Hebburn When built 1866 Launched 6<sup>th</sup> March 1866  
 Ditto of poop or spar deck 198.54 By whom built Andrew Sisti Owners Smith & Co  
 Ditto of engine room 148.68  
 Total Register tonnage 884.91 Port belonging to London Destined Voyage Black Sea  
 Surveyed while Building, Afloat, or in Dry Dock Victoria Docks

| 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.         | No. of Decks |          |
|--|--|-----------------|---|---|---|------------------|----------------|--------------|----------|
| Length aloft   | <u>221 1/4</u>   | Extreme breadth | <u>28 1/10</u>                            | Depth from top of Upper Deck Beam to top of Floor | <u>23 1</u>   | Power of Engines | <u>80 H.P.</u> | No. of Decks | <u>2</u> |
| <i>(Dimensions of Ship per Register)</i> Length <u>220 1/10</u> breadth <u>28 1/10</u> depth <u>16.1.5</u>   |  |                 |   |   |   |                  |                |              |          |
| Keel, <input checked="" type="checkbox"/> bar iron, depth and thickness  | Inches in Ship   |                 | Inches required per Rule                  |   | Plates in Garboard Strakes, breadth and thickness   |                  |                |              |          |
| Keel, <input checked="" type="checkbox"/> if plate iron, breadth and thickness   | <u>7 x 2 3/4</u>   |                 |   |   | <u>30</u>   | <u>10 1/16</u>   |                |              |          |
| Stem, <input checked="" type="checkbox"/> bar iron, moulding and thickness   | <u>7 x 2 3/4</u>   |                 |   |   | Ditto from Garboard to upper part of Bilges   |                  |                |              |          |
| Stem, <input checked="" type="checkbox"/> if plate iron, breadth and thickness   | <u>7 x 2 3/4</u>   |                 |   |   | <u>10 1/16</u>  | <u>9 1/16</u>    |                |              |          |
| Stern-post, <input checked="" type="checkbox"/> bar iron, moulding and thickness   | <u>7 x 4 1/2</u>   |                 |   |   | " from upper part of Bilge to a perpendicular height from upper side of Keel of 3/4ths the entire depth of Hold |                  |                |              |          |
| Stern-post, <input checked="" type="checkbox"/> if plate iron, breadth and thickness   | <u>7 x 4 1/2</u>   |                 |   |   | <u>9 1/16</u>   | <u>10 1/16</u>   |                |              |          |
| Distance of Frames from moulding edge to moulding edge, all fore and aft   | <u>21</u>  |                 |   |   | " from 3/4ths depth of Hold to lower edge of Sheerstrake  |                  |                |              |          |
| Frames, Size of Angle Iron, single or double   | Inches. Inches. 16ths. required in ship.   |                 | Inches. Inches. 16ths. required per Rule. |   | Sheerstrake breadth and thickness   |                  |                |              |          |
| Frames, Reversed Iron, to every frame  | <u>5</u>   | <u>3</u>        | <u>1/16</u>                               |   | Butt Straps to outside plating, breadth and thickness   |                  |                |              |          |
| Frames, Reversed Iron, to every alternate frame  | <u>2 1/2</u>   | <u>3</u>        | <u>6/16</u>                               |   | <u>9 1/16</u>   | <u>13 3/4</u>    |                |              |          |
| Floors, depth and thickness of Floor Plate at mid line   | <u>1 1/4</u>   | <u>9 1/16</u>   |   |   | Gunwale Plate or Stringer on ends of Upper Deck Beams, breadth and thickness                                    |                  |                |              |          |
| " Ditto ditto at Bilge Keelson   | <u>1 1/8</u>   | <u>9 1/16</u>   |   |   | <u>32</u>   | <u>9 1/16</u>    |                |              |          |
| " Size of Reversed Angle Iron, and No. one at top of Floor Plate   | <u>3</u>   | <u>2 1/2</u>    | <u>6/16</u>                               |   | Angle Iron on ditto   |                  |                |              |          |
| Beams, Deck (No. <u>42</u> ) double Angle Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Stringer or Tie Plates fore and aft, on Upper Deck Beams, outside Hatchways                                     |                  |                |              |          |
| Beams, " double or single Angle Iron, on upper edge  | <u>2 3/4</u>   | <u>3</u>        | <u>5/16</u>                               |   | Diagonal Tie Plates on ditto  |                  |                |              |          |
| " " average space between  | <u>3 feet</u>  | <u>6</u>        |   |   | Planksheer, materials and scantlings  |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Waterway ditto ditto  |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Flat of Upper Deck, thickness and material  |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | " " how fastened to Beams   |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Ceiling betwixt Decks and in Hold, thickness and material   |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | <u>2 1/4</u>  | <u>1 1/4</u>     |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Clamps or Spirketting ditto   |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Stringer Plates on ends of Hold or Lower Deck Beams, breadth and thickness                                      |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | <u>17</u>   | <u>7/16</u>      |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Stringer or Tie Plates fore and aft outside Hatchways, on Hold or Lower Deck Beams                              |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | Stringers in Hold   |                  |                |              |          |
| Hold, or Lower Deck (No. <u>1</u> ) double Angle, or Plate, or Bulb Iron   | <u>7</u>   | <u>3</u>        | <u>7/16</u>                               |   | <u>5</u>  | <u>3 1/4</u>     | <u>7/16</u>    |              |          |
| Keelson, single or double plate, box, or intercostal   | <u>20 1/2</u>  | <u>4</u>        | <u>9/16</u>                               |   | Flat of Lower Deck, thickness and material  |                  |                |              |          |
| Keelson, Size of Plates  | <u>3</u>   | <u>4 3/4</u>    | <u>8/16</u>                               |   | Main piece of Rudder, diameter at head  |                  |                |              |          |
| Keelson, Size of Angle Irons   | <u>3</u>   | <u>4 3/4</u>    | <u>8/16</u>                               |   | " " " at heel   |                  |                |              |          |
| Keelson, Side, single or double, plate, box, or intercostal  | <u>3 1/2</u>   | <u>3</u>        | <u>6/16</u>                               |   | (Can the Rudder be unshipped afloat) <u>Yes</u>   |                  |                |              |          |
| Keelson, Bilge (No. <u>2</u> ) at each Bilge, single, or double, plate, or box   | <u>3</u>   | <u>14 1/2</u>   | <u>7/16</u>                               |   | Bulkheads, No. <u>6</u> Thickness of <u>1 1/8</u>   |                  |                |              |          |
| Keelson, Bilge (No. <u>2</u> ) at each Bilge, single, or double, plate, or box   | <u>3</u>   | <u>14 1/2</u>   | <u>7/16</u>                               |   | " Height up <u>Main Deck</u>  |                  |                |              |          |
| Keelson, Bilge (No. <u>2</u> ) at each Bilge, single, or double, plate, or box   | <u>3</u>   | <u>14 1/2</u>   | <u>7/16</u>                               |   | " how secured to the sides of the ship <u>to frames</u>   |                  |                |              |          |
| Transoms, material <u>Plate</u> or, if none, in what manner compensated for.   |  |                 |   |   |   |                  |                |              |          |
| Knighthead, and Hawse Timbers  | <u>Iron</u> size of vertical angle irons <u>7/4 x 2 1/2</u> and their distance apart <u>8 feet</u> |                 |   |   |   |                  |                |              |          |
| The Frames extend in one length from <u>Keel to upper deck</u> rivetted through plates with <u>3/4</u> rivets, about <u>2 1/2</u> apart.   |  |                 |   |   |   |                  |                |              |          |
| The reverse angle irons on the floors extend in one length across the middle line from <u>Hold Beam to Hold Beam</u>   |  |                 |   |   |   |                  |                |              |          |
| " " " on the frames " " " from <u>and</u> to <u>Main deck Stringer plate on alternate frames</u>   |  |                 |   |   |   |                  |                |              |          |
| Keelson, how are the various lengths of plates or angle irons connected? <u>by lining pieces or Butt Straps</u>  |  |                 |   |   |   |                  |                |              |          |
| Plates, Garboard, double rivetted to keel, double rivetted at upper edge, with rivets <u>3/16</u> (ins.) diameter, averaging <u>3 1/4</u> (ins.) apart.  |  |                 |   |   |   |                  |                |              |          |
| " Edges from Garboards to upper part of bilge, worked clencher, double or single rivetted; with rivets <u>3/4</u> (ins.) diameter, averaging <u>2 3/4</u> (ins.) apart.  |  |                 |   |   |   |                  |                |              |          |
| " Butts from Keel to turn of bilge, worked carvel with butt straps <u>1 1/16</u> thick, double or single rivetted; with rivets <u>3/4</u> (ins.) diameter, averaging <u>2 3/4</u> (ins.) apart.  | Do the butt straps lap over and rivet through the lands of the strake below? <u>No</u>             |                 |   |   |   |                  |                |              |          |
| " Edges from bilge to sheerstrake, worked carvel with a lining piece ( ) thick, or clencher, double or single rivetted; with rivets <u>3/4</u> (ins.) diameter, averaging <u>2 3/4</u> (ins.) apart.   | Do the butt straps lap over and rivet through the lands of the strake below? <u>No</u>             |                 |   |   |   |                  |                |              |          |
| " Edges of Sheerstrake, double or single rivetted? At upper edge <u>single</u> At lower edge <u>single</u>   |  |                 |   |   |   |                  |                |              |          |
| " Butts from bilge to planksheers, worked carvel with butt straps <u>1 1/16 to 1/16</u> thick, double or single rivetted; with rivets <u>3/4</u> (ins.) diameter, averaging <u>2 3/4</u> (ins.) apart. Breadth of laps in double rivetting <u>3 3/4</u> Breadth of laps in single rivetting <u>2 1/2</u> |  |                 |   |   |   |                  |                |              |          |
| Butt Straps of Keelsons, Stringer and Tie Plates, double or single rivetted? <u>double</u>   |  |                 |   |   |   |                  |                |              |          |
| Planksheer, how secured to the plating of the sides  | Explain by sketch } <u>Please see Maship section</u>   |                 |   |   |   |                  |                |              |          |
| Waterway " " planksheer and to the Beams   | if necessary. }  |                 |   |   |   |                  |                |              |          |
| Deck Beams, how secured to the side? <u>Solid knees and Stringer Angle Irons rivetted to frames</u>  |  |                 |   |   |   |                  |                |              |          |
| Hold or Lower Deck ditto <u>ditto</u>  |  |                 |   |   |   |                  |                |              |          |
| Paddle " " <u>none</u>   | No. of breasthooks <u>four</u> crutches <u>three</u>   |                 |   |   |   |                  |                |              |          |
| What description of Iron is used for the Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? <u>Not known</u>  |  |                 |   |   |   |                  |                |              |          |
| Manufacturer's name or trade mark <u>Not seen</u>  |  |                 |   |   |   |                  |                |              |          |

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

Builder's Signature \_\_\_\_\_ Surveyor's Signature J. S. Tucker

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