

IRON SHIP.

No. 3098 Survey held at *West Hartlepool* Date, First Survey *15th March* Last Survey *27th October* 18*77*

On the *S.S. "Agnes"* Master *H. Loder*

ONNAGE under } *1206.40* ONE, OR TWO DECKED THREE DECKED VESSEL.
 Tonnage Deck }
 Ditto of Third, Spar, } *125.34* SPAR, OR AWNING DECKED VESSEL.
 or Awning Deck. }
 Ditto of Poop, or } *141.26* HALF BREADTH (moulded) ... *16.11 1/2*
 Raised Qr. Dk. }
 Ditto of Houses } *7.10* DEPTH from upper part of Keel to top of Upper Deck Beams *21.6 1/2*
 Ditto of Deck } *7.72* GIRTH of Half Midship Frame (as per Rule) ... *34.*
 Ditto of Forecastle } *34.49* 1st NUMBER ... *72.6*
 Gross Tonnage *1607.61* 1st NUMBER, if a THREE-DECKED VESSEL
 Less Crew Space *51.23* [deduct 7 feet]
 Less Engine Room *514.44* LENGTH ... *256*
 Register Tonnage } *1041.94* 2nd NUMBER ... *10660*
 as cut on Beam }
 PROPORTIONS—Breadths to Length *within 12*
 Depths to Length—Upper Deck to Keel *within 12*
 Main Deck ditto ...

Built at *West Hartlepool*
 When built *1877* Launched *1877*
 By whom built *Jarvis & Co.*
 Owners *Robert Irvine & Co.*
 Port belonging to *West Hartlepool*
 Destined Voyage *T*
 If Surveyed while Building, Afloat, or in Dry Dock.

| LENGTH | Feet. | Inches. | BREADTH | Feet. | Inches. | DEPTH | Feet. | Inches. | Power of | Horse. | Nº. of Decks with flat laid | Nº. of Tiers of Beams |
|--------------|-------|---------|------------|-------|---------|-------------------------|-------|---------|-------------|--------|-----------------------------|-----------------------|
| on deck as | 256 | - | Moulded... | 33 | 11 | top of Floors to Upper | 19 | 0 | Engines ... | 140 | One | Two |
| per Rule ... | | | | | | Deck Beams | | | | | | |
| | | | | | | Do. do. Main Deck Beams | | | | | | |

| Dimensions of Ship per Register, length, 250.5 breadth, 34 depth, 19-7 | Inches in Ship. | Inches per Rule. | Inches in Ship. | Inches per Rule. | Inches in Ship. | Inches per Rule. | Inches in Ship. | Inches per Rule. | Inches in Ship. | Inches per Rule. | Inches in Ship. | Inches per Rule. |
|--------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| KEEL, depth and thickness ... | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 |
| STEM, moulding and thickness ... | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 | 9 x 2 1/2 |
| STERN-POST for Rudder do. do. ... | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 |
| for Propeller ... | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 | 9 x 4 3/4 |
| Distance of Frames from moulding edge to moulding edge, all fore and aft ... | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| FRAMES, Angle Iron, for 3/4 length amidships ... | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 |
| Do. for 1/2 at each end ... | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 | 4 1/2 x 3 |
| REVERSED FRAMES, Angle Iron ... | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 | 3 x 3 |
| FLOORS, depth and thickness of Floor Plate at mid line for half length amidships ... | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 | 22 1/2 x 9/16 |
| thickness at the ends of vessel ... | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 |
| depth at 3/4 the half-bdth. as per Rule ... | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 | 7/16 |
| height extended at the Bilges ... | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 |
| BEAMS, Upper, Spar, or Awning Deck Single or double Angle Iron, Plate or Tee Bulb Iron ... | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 | 5 1/2 x 3 |
| Single or double Angle Iron on Upper edge ... | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Average space ... | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| BEAMS, Main, or Middle Deck Single or double Angle Iron, Plate or Tee Bulb Iron ... | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 | 5 x 3 |
| Single, or double Angle Iron, on Upper Edge ... | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Average space ... | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| BEAMS, Lower Deck, Hold, or Orlop Single or double Angle Iron, Plate or Tee Bulb Iron ... | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 | 9 x 9/16 |
| Single or double Angle Iron on Upper Edge ... | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 | 4 x 4 |
| Average space ... | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames | 10 x 12 frames |
| KEELSONS Centre line, single or double plate, box, or intercostal, Plates ... | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 | 10 x 13/16 |
| " Rider Plate ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " Bulb Plate to Intercostal Keelson ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " Angle Irons ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " Double Angle Iron Side Keelson ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " Side Intercostal Plate ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " do. Angle Irons ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " Attached to outside plating with angle iron ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| BILGE Angle Irons ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " do. Bulb Iron ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| " do. Intercostal plates riveted to plating for length ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| BILGE STRINGER Angle Irons ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| Intercostal plates riveted to plating for length ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| SIDE STRINGER Angle Irons ... | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 4 |
| Transoms, material. Knight-heads. Hawse Timbers. ... | Plates | Plates | Plates | Plates | Plates | Plates | Plates | Plates | Plates | Plates | Plates | Plates |
| Windlass Emerson & Walbridge Patent Pall Bitt ... | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent | Emerson & Walbridge Patent |

The FRAMES extend in one length from *Keel* to *gunwale* Riveted through plates with *7/10* in. Rivets, about *6* apart.
 The REVERSED ANGLE IRONS on floors and frames extend *across* middle line to *above hold beam string* 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 *1/10* in. diameter, averaging *5 1/2* ins. from centre to centre.
 Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets *7/10* in. diameter, averaging *3 3/4* ins. from centre to centre.
 Butts from Keel to turn of Bilge, worked carvel, double riveted; with rivets *7/10* 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 *1 1/16* thicker than the plates they connect.
 Edges from bilge to Main Sheerstrake, worked clencher, double or single riveted; with rivets *7/10* in. diameter, averaging *3 3/4* ins. from cr. to cr.
 Butts from Bilge to Main Sheerstrake, worked carvel, double riveted; with rivets *7/10* 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 *half* 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 1/4* Breadth of laps of plating in single riveting *1 1/16*
 Butt Straps of Keelsons, Stringer and Tie Plates, treble, double or single Riveted? *Double & treble*
 Waterway, how secured to Beams (Explain by Sketch, if necessary.)
 Beams of the various Decks, how secured to the sides? *End turned & pieces welded & braced* No. of Breasthooks, *Six* Crutches, *Two*
 What description of Iron is used for Frames, Beams, Keelsons, Tie, and Stringer Plates, Outside Plating, &c.? *Good*
 Manufacturer's name or trade mark, *Stanton & Co.*
 The above is a correct description.
 Builder's Signature, *Irvine & Co.* Surveyor's Signature, *S. P. Gladstone*
 Surveyor to Lloyd's Register of British and Foreign Shipping.

IRON 474-0151

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? *Solid*

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 in butts*

19387. *J. J. J.*

Masts, Bowsprit, Yards, &c., are *of Pine* 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 *Main Mast 71 ft. 2 in. Diameter 20. Fore Mast 75 ft. 10. Dia 21 inches*

NUMBER for EQUIPMENT *20526*

| N ^o . | SAILS. | CABLES, &c. | Fathoms. | Inches. | Test per Certificate. | Length & Size req'd per Rule. | Test req'd per Rule. | ANCHORS. | N ^o . | Weight. Ex. Stock. | Test per Certificate. | Wght req'd per Rule. | Test req'd per Rule. |
|------------------|-------------------------|------------------------------------|----------|---------|-----------------------|-------------------------------|----------------------|----------|------------------|--------------------|-----------------------|----------------------|----------------------|
| | | Chain | 270 | 1 1/8 | 51 1/2 | 240 of 1 1/8 | 51 1/2 | Bowers | 3 | 20-2-1 | 27-10-1-0 | 27-3-0 | 26-10-0-0 |
| | Fore Sails, | <i>at Johnston 10 1/2 Aug 1897</i> | | | | | | | | 27-2-13 | 26-16-3-0 | 24-3-0 | 26-10-0-0 |
| | Fore Top Sails, | | | | | | | | | 22-3-9 | 23-0-2-0 | 23-2-10 | 23-11-0-0 |
| | Fore Topmast Stay Sails | <i>H. J. Lewis</i> | | | | | | | | | | | |
| | Main Sails, | <i>H. J. Lewis</i> | | | | | | | | | | | |
| | Main Top Sails, | <i>H. J. Lewis</i> | | | | | | | | | | | |
| | | <i>quality good</i> | 240 | 6 1/2 | | | | Stream | 1 | 11-2-9 | | 11-0-0 | |
| | | | | | | | | Kedges | 2 | 5-1-14 | | 5-2-0 | |
| | | | | | | | | | | 2-1-3 | | 2-3-0 | |

Standing and Running Rigging *Wire & Hemp* sufficient in size and *good* in quality. She has *four* Long Boats and *good*

The Windlass is *good* Capstan *good* and Rudder *good* Pumps *four of brass metal*

Engine Room Skylights.—How constructed? *3 1/2 feet by 1 1/2 feet casing to top of bulkhead* How secured in ordinary weather? *Buttresses*

What arrangements for deadlights in bad weather? *Buttresses*

Coal Bunker Openings.—How constructed? *Iron coverings* How are lids secured? *Bars* Height above deck? *14 inches*

Scuppers, &c.—What arrangements for clearing upper deck of water, in case of shipping a sea? *Ports & scuppers*

Cargo Hatchways.—How formed? *7/16 plates*

State size Main Hatch *21 ft. 10 in. by 11 ft. 10 in. beams 3 in.* Fore hatch *7 ft. 9 in. by 11 ft. 11 in. beams 3 in.* Quarter hatch *19 ft. 10 in. by 12 ft. 10 in. beams 3 in.*

If of extraordinary size, state how framed and secured?

What arrangement for shifting beams? *Two shifting web beams in main & one do. in each of the other hatchways*

Hatches, If strong and efficient? *Strong & efficient*

Order for Special Survey No. *631*

Date *27 March 1897*

Order for Ordinary Survey No.

Date

No. *22* in builder's yard.

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
- 2nd. On the plating during the process of riveting
- 3rd. When the beams were in and fastened, and before the decks were laid....
- 4th. When the ship was complete, and before the plating was finally coated or cemented..
- 5th. After the ship was launched and equipped

Special Survey Date of Survey. 1897. March 15-11. April 10-14. May 3-7. 10-14. 27. June 6-13. 18-19. 21-20. July 2-3. 6-9. 16. 18. 20. 25. 30. Aug 1-3. 7. 13. 21. 24. 27. Sept. 5. Oct. 4. 22. 23. 27.

General Remarks (State quality of workmanship, &c.) *Workmanship & material good*

Is fitted with Raised Quarter Deck frames all to the top height beams of 5 1/2 x 3 x 8 1/8. Angles to every frame. Stringers on 3 in. 30 x 10 1/8. Angles on 3 in. 5 x 4 x 9 1/8. Deck 6 1/8 x 7 1/8 Iron. Planked over at after end for 30 ft. with 3 in. Pine. Plating outside 10 1/8. 9 1/8 x 8 1/8.

Forecastle frames all to the top height beams 7 x 6 1/8. bulk. Double Angles top edge 3 x 3 x 6 1/8. Stringer plates on beams 20 x 8 1/8. Angles on 3 in. 3 1/2 x 3 1/2 x 7 1/8. Tie plates 8 x 8 1/8. Deck 3 in. Pine. Waterway gutter. Plating outside 6 1/8.

Water ballast tanks fitted in length 200 feet. frames out connection made with three plates side plates 7 1/8. Angles on 3 in. 4 x 4 x 8 1/8. Web plates 6 1/8. Angles on 3 in. 3 x 2 1/2 x 6 1/8. Top plating 6 1/8 x 7 1/8. Tested by a head of water to the height of load line.

Additional strengthening at break of Raised Deck. Main deck stringer plates extended 7 frame spaces abaft break. Raised 3 in. 7 frame spaces before Sheerstrakes doubled for 24 ft. Rod beam stringers overlaid 16 ft. with 3 in. shell plating. Treble riveted in neighbourhood of break.

Shrove 8 1/8.

State if one, two, or three, decked vessel, or if spar, or awning decked, and the lengths of poop, forecabin, or raised quarter deck, and the length of double, or part double bottom.

How are the surfaces preserved from oxidation? Inside *cemented with Portland cement* Outside *2 other parts with paint*

I am of opinion this Vessel should be Classed *100 A1*

The amount of the Entry Fee ... £ *5 : 0 : 0* is received by me, *S. J. J.*

Special ... £ *63 : 10 : 0 - 29 Oct. 1897*

Certificate ...

(Travelling Expenses, if any, £ ...)

Committee's Minute *2nd November, 1897.*

Character assigned *100 A1*
Lloyd's Register
double bottom 200 ft
100 A1

Lloyd's Register
double bottom 200 ft
100 A1