

3 Decks.

IRON OR STEEL STEAMER.

THURS. 9 DEC

No. 631.

Date of completion of report *5th Dec/94* Port of *Barrow* Received at London Office
Survey held at *Barrow* Date, First Survey *9th February 1894* Last Survey *4th Dec. 1894.*
On the *Steel Screw Steamer CLAN MACKAY* Rig *Schooner*
TONNAGE under Tonnage Deck...
Do. between Tonnage Dk. and 3rd and 4th Dk. *2398.23*
Total under Upper Dk. *2398.23*
Do. of Poop *64.54* Half Breadth (moulded) *20.00*
Do. of Bridge Ho. *60.66* Depth from upper part of Keel to top of Upper Deck Beams *26.96*
Do. of Forecastle *23.11* Girth of Half Midship Frame (as per Rule) *42.87*
Do. of Houses on Dk. *8.75* deduct 7 feet. *89.83*
Do. of excess of Hatchways *9.60* *7.00*
Do. above Crown of Engine Room *34.71* 1st Number *82.83*
Gross Tonnage *2599.60* Length *310.33*
Less Crew Space *80.78* 2nd Number *25704.63*
Less above Crown of Engine Room *34.71* Proportions—Breadth to Length *7.76*
TONNAGE FOR FEES *2484.11* Depth to Length—Upper Deck to top of Keel *11.51*
Less Engine Room *831.87* Main Deck ditto *16.33*
Less Navigation Spaces *22.09*
Register Tonnage *1664.86* Destined Voyage If Surveyed while Building, Afloat, *main Deck*
as cut on Beam

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH top of Floors to Upper Deck Beams	Feet.	Inches.	Power of Engines	Horse.	No. of Decks with flat laid	No. of Tiers of Beams
<i>310</i>	<i>4</i>		<i>40</i>	<i>0</i>		<i>26</i>	<i>11</i>	<i>11</i>	<i>100</i>		<i>2</i>	<i>2</i>
Dimensions of Ship per Register, Length <i>312.0</i> breadth <i>40.2</i> depth <i>24.7</i> Moulded depth, ft. <i>26</i> ins. <i>2</i> To Upper Dk. Beam, Upper Dk. <i>9</i> ins.												
FRAMING.						FORGINGS & CASTINGS.						Inches in Ship.
FRAME, Angles, <i>7</i> Bars for $\frac{1}{2}$ length amidships	<i>5</i>	<i>3 1/2</i>	<i>8</i>	<i>5</i>	<i>3 1/2</i>	KEEL, Bar or Side Plates, depth and thickness	<i>10</i>	<i>2 3/4</i>	<i>10</i>	<i>2 3/4</i>		<i>10</i>
Do. for $\frac{1}{2}$ at each end	<i>5</i>	<i>3 1/2</i>	<i>7</i>	<i>5</i>	<i>3 1/2</i>	STEM, moulding and thickness	<i>10</i>	<i>2 3/4</i>	<i>10</i>	<i>2 3/4</i>		<i>10</i>
Do. in way of Double Bottoms at Solid Floors	<i>3 1/2</i>	<i>3 1/2</i>	<i>8</i>	<i>3 1/2</i>	<i>3 1/2</i>	STERN-POST for Rudder do. do.	<i>10</i>	<i>6</i>	<i>10</i>	<i>6</i>		<i>10</i>
Distance of Frames from moulding edge to moulding edge, all fore and aft	<i>24</i>			<i>24</i>		for Propeller	<i>10</i>	<i>6</i>	<i>10</i>	<i>6</i>		<i>10</i>
REVERSED FRAME, Angles	<i>3 1/2</i>	<i>3 1/2</i>	<i>8</i>	<i>3 1/2</i>	<i>3 1/2</i>	MAIN PIECE of Rudder, diameter at head	<i>8</i>		<i>8</i>			<i>8</i>
DEEP FRAMING, depth of girder	<i>24 1/2</i>	<i>10</i>		<i>24 1/2</i>	<i>10</i>	do. at heel	<i>4</i>		<i>4</i>			<i>4</i>
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships	<i>12 1/2</i>			<i>12 1/2</i>		RUDDER, how constructed <i>Chen Juying Single plate</i>						
in way of Engine and Boilers	<i>12 1/2</i>			<i>12 1/2</i>		Can the Rudder be unshipped afloat?						
thickness at the ends of vessel	<i>49</i>			<i>49</i>		KEELSONS & STRINGERS.						
depth at $\frac{1}{2}$ the half breadth, as per Rule	<i>49</i>			<i>49</i>		CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate	<i>25</i>	<i>14</i>	<i>25</i>	<i>14</i>		
height extended at the Bilges	<i>24</i>			<i>24</i>		Rider Plate	<i>13 1/4</i>	<i>14</i>	<i>13 1/4</i>	<i>14</i>		
FLOORS & BRACKETS in Cell Dble Bottoms	<i>40</i>	<i>10</i>		<i>40</i>	<i>10</i>	Bulb Plate to Intercostal Keelson	<i>6 1/2</i>	<i>4</i>	<i>6 1/2</i>	<i>4</i>		
CENTRE GIRDER, in Double bottom, depth and thickness	<i>40</i>	<i>10</i>		<i>40</i>	<i>10</i>	Horizontal Plates on Floors	<i>6 1/2</i>	<i>4</i>	<i>6 1/2</i>	<i>4</i>		
Angles, Top	<i>40</i>	<i>10</i>		<i>40</i>	<i>10</i>	Angles	<i>6 1/2</i>	<i>4</i>	<i>6 1/2</i>	<i>4</i>		
SIDE GIRDERS, number and thickness	<i>7</i>	<i>3 1/2</i>		<i>7</i>	<i>3 1/2</i>	SIDE KEELSON, Angles	<i>6 1/2</i>	<i>4</i>	<i>6 1/2</i>	<i>4</i>		
Angles	<i>7</i>	<i>3 1/2</i>		<i>7</i>	<i>3 1/2</i>	Bulb or Plate above floors, for $\frac{1}{2}$ length	<i>9 1/2</i>	<i>9</i>	<i>9 1/2</i>	<i>9</i>		
MARGIN PLATE, depth (exclusive of flange) and thickness	<i>26</i>	<i>8</i>		<i>26</i>	<i>8</i>	Intercostal Plate, for $\frac{1}{2}$ length	<i>9 1/2</i>	<i>9</i>	<i>9 1/2</i>	<i>9</i>		
Angles	<i>3 1/2</i>	<i>3 1/2</i>	<i>8</i>	<i>3 1/2</i>	<i>3 1/2</i>	Attached to outside Plating with Angle	<i>3 1/2</i>	<i>3 1/2</i>	<i>10</i>	<i>3 1/2</i>	<i>3 1/2</i>	<i>10</i>
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	<i>36</i>	<i>9</i>		<i>36</i>	<i>9</i>	BILGE KEELSON, Angles	<i>6 1/2</i>	<i>4</i>	<i>6 1/2</i>	<i>4</i>		
in Engine and Boiler space	<i>36</i>	<i>9</i>		<i>36</i>	<i>9</i>	Bulb or Plate above floors, for $\frac{3}{5}$ length	<i>9 1/2</i>	<i>9</i>	<i>9 1/2</i>	<i>9</i>		
Remainder in Holds	<i>7</i>	<i>3 1/2</i>		<i>7</i>	<i>3 1/2</i>	Intercostal Plate for $\frac{1}{2}$ length	<i>9 1/2</i>	<i>9</i>	<i>9 1/2</i>	<i>9</i>		
BEAMS, Upper Deck, Single Angle, Bulb	<i>9</i>	<i>5 1/2</i>	<i>7</i>	<i>9</i>	<i>5 1/2</i>	Attached to outside Plating with Angle	<i>3 1/2</i>	<i>3 1/2</i>	<i>10</i>	<i>3 1/2</i>	<i>3 1/2</i>	<i>10</i>
Angles on upper edge	<i>48</i>			<i>48</i>		SIDE STRINGER Angles						
Average space	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Bulb or Intercostal Plate, for $\frac{1}{2}$ length						
BEAMS, Middle Deck, Single Angle, Bulb	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Attached to outside plating with Angle						
Angles on upper edge	<i>24</i>			<i>24</i>		Upper Deck Stringer Plates, br'dth & thickness	<i>49 1/2</i>	<i>10</i>	<i>49 1/2</i>	<i>10</i>		
Average space	<i>24</i>			<i>24</i>		Angle on ditto	<i>49 1/2</i>	<i>10</i>	<i>49 1/2</i>	<i>10</i>		
BEAMS, Lower Deck, Single Angle, Bulb	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Tie Plates fore and aft, outside Hatchways	<i>7 1/2</i>	<i>6</i>	<i>7 1/2</i>	<i>6</i>		
Angles on upper edge	<i>24</i>			<i>24</i>		Deck. * Iron or Steel, for $\frac{1}{2}$ length	<i>5</i>	<i>3</i>	<i>5</i>	<i>3</i>		
Average space	<i>24</i>			<i>24</i>		Wood Deck. Material & thickness	<i>5</i>	<i>3</i>	<i>5</i>	<i>3</i>		
BEAMS, Hold, or Orlop, Plate or Tee Bulb	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Middle Deck Stringer Plate, br'dth & thickness	<i>44 1/2</i>	<i>10</i>	<i>44 1/2</i>	<i>10</i>		
Angles on upper edge	<i>48</i>			<i>48</i>		Angles on ditto, No. <i>2</i>	<i>4</i>	<i>4</i>	<i>9</i>	<i>4</i>	<i>4</i>	<i>9</i>
Average space	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Tie Plates outside Hatchways						
BEAMS, Poop Deck, Angle, Bulb	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Diagonal Tie Plates on Bms, No. of prs.	<i>6</i>		<i>6</i>			
Angles on upper edge	<i>48</i>			<i>48</i>		Deck. * Iron or Steel, for $\frac{1}{2}$ length						
Average space	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Wood Deck. Material & thickness						
BEAMS, Bridge Deck, Angle, Bulb	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Lower Deck Stringer Plate, br'dth & thickness						
Angles on upper edge	<i>48</i>			<i>48</i>		Angles on ditto, No.						
Average space	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Tie Plates, outside Hatchways						
BEAMS, Forecastle Deck, Angle, Bulb	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Deck. * Material and thickness						
Angles on upper edge	<i>48</i>			<i>48</i>		Hold, or Orlop Stringer Plate, br'dth & thckn's						
Average space	<i>7 1/2</i>	<i>3</i>	<i>9</i>	<i>7 1/2</i>	<i>3</i>	Angles on ditto, No.						
PILLARS, In 'tween Deck, size and spacing	<i>23 1/4</i>	<i>48</i>		<i>23 1/4</i>	<i>48</i>	Tie Plates outside Hatchways						
Hold	<i>4</i>	<i>4</i>		<i>4</i>	<i>4</i>	Deck. Material and thickness						
Quarter 'tween Dks.	<i>4</i>	<i>4</i>		<i>4</i>	<i>4</i>	Forecastle Deck Stringer Plate, br'dth & th'kns						
In Hold	<i>4</i>	<i>4</i>		<i>4</i>	<i>4</i>	Angles on ditto	<i>28</i>	<i>7</i>	<i>28</i>	<i>7</i>		
WEB-FRAMES, In Fore Body, No. and spacing	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Tie Plates	<i>12</i>	<i>6</i>	<i>12</i>	<i>6</i>		
br'dth. & thickness	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Deck. Material and thickness	<i>5</i>	<i>3</i>	<i>5</i>	<i>3</i>		
No. of Side Stringers	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Bridge Deck Stringer Plate, br'dth & thickness						
WEB-FRAMES, In B. Space, No. & spacing	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Angles on ditto	<i>36</i>	<i>8</i>	<i>36</i>	<i>8</i>		
br'dth. & thickness	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Tie Plates	<i>12</i>	<i>6</i>	<i>12</i>	<i>6</i>		
WEB-FRAMES, In After Body, No. and spacing	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Deck. Material and thickness	<i>5</i>	<i>3</i>	<i>5</i>	<i>3</i>		
br'dth. & thickness	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Forecastle Deck Stringer Plate, br'dth & th'kns						
No. of Side Stringers	<i>18</i>	<i>8</i>		<i>18</i>	<i>8</i>	Angles on ditto	<i>28</i>	<i>7</i>	<i>28</i>	<i>7</i>		
Size of Angles or Tee Bars to Web-Frames	<i>3 1/2</i>	<i>3 1/2</i>	<i>8</i>	<i>3 1/2</i>	<i>3 1/2</i>	Tie Plates	<i>12</i>	<i>6</i>	<i>12</i>	<i>6</i>		
BRACKET PLATES to Stringers between Web Frames, depth and thickness	<i>12</i>	<i>8</i>		<i>12</i>	<i>8</i>	Deck. Material and thickness	<i>5</i>	<i>3</i>	<i>5</i>	<i>3</i>		

