

No 4472 Survey held at Sunderland

Rec 24/4/51 Date April 22 1872

on the Barque "Eliza Thornton"

Master Thomas Maxwell

Tonnage 417 Built at Sunderland

When built 1857

By whom built J. & C. Co

Owners Messrs Thornton & West

Port belonging to London

Destined Voyage

London to Batavia

If Surveyed Afloat or in Dry Dock during Building

Length aloft 115 6 Feet. Inches. Extreme Breadth 28 2 Feet. Inches. Depth of Hold 18 6 Feet. Inches.

Scantlings of Timber.

Room and Space	Inches.	Inches.	Inches.
Floors.....sided	<u>13 1/2</u>	Moulded	<u>12 1/2</u> <u>10 1/2</u>
1 st Foothooks.....	<u>10 1/2</u>	"	<u>9</u>
2 nd Ditto.....	<u>9 1/2</u>	"	<u>8 1/2</u>
3 rd Ditto.....	<u>8 3/4</u>	"	<u>8</u>
Top Timbers.....	<u>8 1/2</u>	"	<u>5 1/2</u>
main Deck Beams N° <u>16</u> Average Space } <u>4/9</u> <u>15</u>	<u>9 1/2</u>	"	<u>9 1/2</u> <u>7</u>
Hold Beams N° <u>18</u> Average Space } <u>4/6</u> <u>4</u>	<u>12 1/2</u>	"	<u>12 1/2</u> <u>10</u>
Keel.....	<u>12</u>	"	<u>14</u>
Kelsons.....	<u>14</u>	"	<u>22</u>

Thickness of Plank.

Outside.	Inches.	Inside.	Inches.
Keel to Bilge.....	<u>3</u>	Limber Strakes.....	<u>5</u>
Bilge Planks.....	<u>4 1/2</u>	Bilge Planks.....	<u>4</u>
Bilge to Wales.....	<u>4 3/4</u>	Ceiling in Flat.....	<u>3</u>
Wales.....	<u>5</u>	Ditto Bilge to Clamp.....	<u>3</u>
Topsides.....	<u>4</u>	Hold Beam Clamp.....	<u>5 1/4</u>
Sheer Strakes.....	<u>4</u>	Deck Beam Ditto.....	<u>3 1/2</u>
Plank Sheers.....	<u>3 3/4</u>	Ceiling 'twixt Decks.....	<u>2 1/2</u>
Water-Ways.....	<u>6 1/4</u>	Hold Beam Sheeting.....	<u>5</u>
Upper Deck.....	<u>3 1/2</u>	Deck Beam Ditto.....	<u>"</u>

Size of Bolts in Fastenings, distinguishing whether

Copper or Iron.

	Inches.
Heel-Knee, and Dead Wood abaft.....	<u>1 1/4</u>
Scarp of Keel.....N° <u>8</u>	<u>5/16</u>
Floor Timber Bolts.....	<u>1 1/8</u>
Kelson ditto.....	<u>1 1/8</u>
Transoms and throats of Hooks.....	<u>1 1/16</u>
Arms of Hooks.....	<u>1 1/16</u>

Copper or Iron.

	Inches.
Bolts thro' the Bilge and Limber Strakes.....	<u>1 3/16</u>
Butt End Bolts.....	<u>3/4</u>
Lower Pintle of the Rudder.....	<u>3 1/4</u>

Iron.

	Inches.
Hold Beam.....	<u>1 1/16</u>
Deck Beam.....	<u>1 1/16</u>

Timbering.—The Space between the Floor Timbers and Lower Foothooks in this Vessel is 2.3 Inches. The Space between

the Top-timbers is 3.5 Inches.

The Stem, Stern Post, are composed of Eng Oak

the Transoms, Aprons,

Knight Heads, Hawse Timbers, of

Eng Oak

and are appx free from all defects.

The Floors and first Foothooks are composed of Eng Oak

Timber.

The other Foothooks and Top Timbers of Eng Oak

The Shifts of the first and second Foothooks are not less than 1 1/4

N. B. When less than prescribed by the Rule, state how many.

The rest of the Shifts of the Frame are good & sufficient

The Frame is well squared from the first Foothook Heads upwards, and very free from sap, and from thence downwards, the frame is well squared

The alternate Frames are all bolted together.

N. B. If not, state how bolted.

The Butts of the Timbers are all close together; their thickness not less than 1/3 of the entire moulding at that place.

The Frame is crop chocked with a Butt at each end of the chock.

The Main Kelson is composed of green heart and the False Kelson of green heart

The Scarphs of the Kelsons are not less than 16 feet inches.

The Deck and Hold Beams are composed of Eng Oak & Peake

Planking Outside.—From the Keel to the first Foothook Heads the Plank is composed of Armed Elm

From the first Foothook Heads to the Light Water Mark of Stettin Oak

From the Light Water Mark to the Wales of green heart Peake & Eng Oak

The Wales and Black-strakes are of green heart & Eng Oak The Topsides of Peake & Eng Oak

The Sheer-strakes and Plank-sheers of Peake & Eng Oak The Water-ways of Peake

The Decks of 4 Pine State of

The Shifts of the Planking are not less than 5 Feet inches. N. B. If less than prescribed by the Rule, state whether general or partial, and if partial, in what part of the Ship. The Planking is wrought Three between

Planking Inside.—The Limber-strakes are composed of green heart the Bilge Planks of green heart & Peake

The Ceiling, Lower Hold, of green heart Peake & Eng Oak Between Decks of green heart Peake & Eng Oak

Shelf Pieces of a Clamps of green heart & Peake

Fastenings.—To Hold Beams iron Lodging Nails Spiketting Bolted through Wales 11 pair of

iron Lodging Nails 2 pair of which reach to the bilges

Deck Beams iron Lodging Nails 8 pair iron Staple Standards, and 13 pair of

iron Lodging Nails

Number of Breasthooks Six & Ottomson Pointers one pair Two Iron Crutches Three Pearson Nails

Butts End Bolts are of 4 Metal in the Bottom, and one Bolt in each Butt End through and clenched.

Bilge and Limber Strakes are bolted through and clenched. Treenails of Eng Oak

General Quality of Workmanship good

We certify that the preceding is a correct description of the above-named Vessel,

Builder's Signature J. & C. Co Surveyor's Signature Robt. B. Lacey

